

SASKATCHEWAN GEOLOGICAL SOCIETY



Saskatchewan Geological Society

2016

Annual Report

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2. PRESIDENT'S REPORT

It has been another eventful and productive year for the Saskatchewan Geological Society (SGS), a brief overview of which is provided here. SGS functions in 2016 were facilitated by a hard-working Executive team, which consisted of Monica Cliveti (Vice-President), Michelle Hanson (Treasurer), Omid Mahmoodi (Secretary), Maria Velez (Business Manager), Jason Cosford (Program Chair), Mike Thomas (Program Co-Chair), and Ralf Maxeiner (Past President), in addition to myself. Omid Mahmoodi took over as Secretary for Bernadette Knox early in the year upon her departure from Regina for an employment opportunity, and his willingness to take on this role on short notice is very much appreciated.

The kickoff to SGS activities for 2016 took place with the Annual General Meeting, held in early February. David MacDougall once again did an outstanding job organizing the event, and the fruits of his labour were evident with a turnout of over 85 people. The evening was highlighted by presentation of student awards, the introduction of Dr. Tom Sibbald into the Society Geoscience Honour Roll, and the presentation of the Canadian Society of Petroleum Geologists RJW Douglas Medal to Dr. Don Kent. The evening was capped off by an entertaining address by outgoing President, Ralf Maxeiner, and the annual business meeting.

Thanks to the efforts of program coordinators Jason Cosford and Mike Thomas, the SGS was able to offer a full slate of lunch lectures in 2016. As outlined in the Program Chair's report (below) fifteen lunch talks were offered in 2016 covering a wide range of topics including uranium exploration, groundwater studies, porphyry deposits, cognitive bias, and petroleum exploration, among many others. Some of these lectures were held at the university in an effort to make it more accessible for our university-based members. Due to a focus on local speakers and the use of the Artful Dodger as the main venue, the lecture program was able to come in well under budget. Income from lunch talks was also lower than expected, however, likely due to lower than anticipated attendance. Society members are encouraged to commit to supporting this important Society initiative heading into 2017.

Under the direction of Maria Velez with assistance from Monica Cliveti, the SGS organized several social events again this year. The annual curling bonspiel took place on March 19th at the Tartan Curling Club, with 11 teams participating. The bonspiel was co-hosted by the D.M. Kent geology student club and the curling draw was organized by Lynn Kelley. The annual golf tournament took place on September 9th, with 9 teams participating in a 9-hole round at Sherwood Forest. As in recent years, the tournament was followed by a BBQ at the MacDougall residence, with over 50 people attending. Both the golf and the BBQ were a big success and the SGS would like to extend its gratitude to Dave and Alice MacDougall for again hosting the BBQ. Also, for the first time, a Society Christmas party was organized. Over 20 Society members and their spouses gathered for an enjoyable evening at the Artful Dodger on December 9th.

Several SGS committees were instrumental in 2016 in helping to fulfill the Society's mandate. The annual SGS field trip visited Jasper National Park, Alberta, and was led by Dr. Ben Rostron from the University of Alberta. The trip took place in late August and thirteen people took part. It was an informative and enjoyable event by all accounts and participants visited a number of impressive exposures of Paleozoic sedimentary rocks, as well as outcrops of Precambrian and Mesozoic rocks. A big thank you goes out to John Lake and the rest of the field trip committee for organizing yet another field



trip and to Ben Rostron for leading the trip.

The Open House committee, chaired by Jason Berenyi, worked hard to organize the 46th annual Open House, which took place in Saskatoon from Nov. 28th-30th, 2016. This conference, co-hosted by the Society, is Saskatchewan's premier event for minerals-related geoscience and continues to be a very successful meeting. The 2016 Open House attracted over 750 delegates and over 60 exhibitors.

The SGS Education and Outreach committee, chaired by Kate MacLachlan, was very active again this year and continue to do tremendous work bringing the geosciences to the public. This was highlighted by the public and school lectures, which were organized in coordination with the SGS Program Chair, Jason Cosford. The Regina public and school lectures were presented in April by Dr. William McKinnon of the NASA New Horizons Mission team. The lectures were a huge success, with Dr. McKinnon presenting to over 1500 grade 6 to 9 students over two days. The Saskatoon public lecture, entitled "Rethinking Cretaceous Climate", took place at the end of November at the Geological Open House and was delivered to about 100 people by Dr. William Hay, Professor Emeritus at Colorado State University. Funding for the 2017 Regina school lectures, as well as for an initiative to update Geoscape lesson plans, received a boost due to receipt of a \$3900 grant from the Canadian Geological Foundation.

Continuing with public geoscience outreach, the SGS calendar committee, chaired by Ralf Maxeiner, delivered the second annual (2017) Geology Wall Calendar this year. As was the first edition, the 2017 calendar is a great product, full of beautiful photos and chock full of information on the geology of Saskatchewan. Sales of the 2017 edition have been strong to date and this successful product has again generated revenue for the Society. All signs currently point towards production of a 2018 edition.

The SGS Executive and committees collectively accomplished several other initiatives in 2016, including an SGS clothing order, procurement of new speaker gifts, a revamp of the website, and a publication inventory, among others. Notwithstanding the many opportunities offered through the Society this year, the Treasurer's Report (below) indicates that the Society's expenditures were well lower than budgeted for 2016 (exclusive of Open House) and well below the 3-year average. The Society's 2016 income was, however, also lower than anticipated, resulting in a net deficit of ~\$7500 for 2016. This is at least partly an indirect consequence of the current state of the mineral and petroleum industries, such that revenue generated from industry-focussed activities (e.g. sponsorship, core workshops, etc.) is more difficult to come by. This will be an ongoing challenge for the Society for at least the short term, and will require that upcoming Executives explore alternative revenue sources and/or practise fiscal prudence to ensure the financial health of the Society going forward.

Finally, I would like to acknowledge our current corporate sponsors, whose support contributes greatly to the activities of the SGS. A list of all 2016 corporate members/sponsors can be found in the Vice-President's reports below. I would especially like to thank APEGS for their continued financial support of the Society and for the participation of APEGS staff members in several SGS functions.

Respectfully submitted,
Ryan Morelli, President



3. VICE-PRESIDENT'S REPORT

There were a total of 216 Saskatchewan Geological Society memberships for all categories for the 2016 calendar year. The breakdown by membership type for the past several years is shown in the table below:

Category/Year	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Active/Lifetime/Emeritus	87	105	97	106	107	66	87	106	103	108
Student	22	26	26	78	117	58	67	80	65	89
Corporate	20	18	10	8	6	3	2	14	20	17
Amateur/Info/Honorary	3	3	2	3	4	3	4	7	9	2
Total	132	152	135	195	234	130	160	207	197	216

This year, the society was at its second highest in term of membership numbers, while still seeing a decrease in corporate and amateur/information/honorary members. Corporate members for 2016 include mostly those who contributed directly to the calendar project.

This year there was a change regarding the timing of the corporate membership solicitation. The hard copy letter mail-out was sent out in late November so as to better align with the calendar year.

I would like to thank all our corporate members for their support of the Society this year, particularly given the tough economic environment. The 2016 corporate members are listed below:

Saskatchewan Mining Association
D.M.Kent Consulting Geologist
J.D.Mollard & Associate
Rio Tinto
Activation Laboratories Ltd. (Actlabs)
Caprice Resources Ltd.
Denison Mines Corp.
Discovery Int'l Geophysics
Foran Mining Corporation
Hudbay Minerals Inc.
Hy-Tech Drilling
Petroleum Technology Research Centre
Saskatchewan Research Council
Western Potash

I would also like to thank our members for getting involved and donating so much of their precious time for promoting the activities of the Society. Have a wonderful year and hope to see as many of you at our activities!

Respectfully submitted,

Monica Cliveti
Vice-President



4. Business Manager's Report

The following activities took place during 2016:

1. Curling Bonspiel on March 19th: A total of 11 teams (6 student teams; 5 teams composed of professional geologists and spouses/friends) and 44 people participated in the event. Prizes for winners were donated by JD Mollard, Department of Geology (UofR), SGS and APEGGS; many thanks to all of them for their generous donations. John Kelley and Monica Cliveti are thanked for their enormous help organizing this event.
2. Golf tournament on September 9th: A total of 9 teams (2 student teams, 7 were composed of professional geologists and spouses/friends) and 36 people participated. A BBQ at Alice and David McDougall's place followed the event. We decided to move away from material prizes and Monica Cliveti and I prepared apple pies and rhubarb jam for all teams. We also had a generous prize donation from Malty National Brewery (Regina). Thank you to the McDougall's, Monica and Malty National for their support.
3. Luncheon talks: We continue booking the Artful Dodger as the venue for the talks. This place works well but sometimes it can be noisy. Due to my teaching schedule I could not attend the talks for 2016.
4. Seminars and other talks: Few seminars and talks were also organized in partnership with the University of Regina, and took place at the U of R. The auditorium at the Royal Saskatchewan Museum was also book for a public event on April 19 (7:00 pm). This venue was affordable, the booking flexible and in general it worked very well. It is recommended for other public events.
5. Stickers. The SGS decided to print 100 stickers to distribute at the Open House and other events. We printed the stickers at Floprint (Regina).

I would like to thank all members of the SGS Executive for their unconditional support during this year and for giving me the opportunity to learn new things. It has been a privilege to work with all of you. In particular, I want to thank Monica Cliveti who guide me into this position and helped with the organization of every event. I am ready to help the next Business Manager, so the transition is smooth.

Respectfully submitted,

Maria I. Velez
Business Manager



5. TREASURER'S REPORT

This report is an unaudited financial report for the 2016 fiscal year, which ended on December 31st, 2016. The *2016 Profit and Loss Statement*, *2016 Balance Sheet*, and *2017 Budget* are presented at the end of this report. What follows are the highlights of the Society's financial activity during the 2016 fiscal year.

In 2016, without considering the operating budget for the Saskatchewan Geological Open House, the Society's expenditures were \$14,295.99 lower than budgeted and the Society's income was \$8,285.80 lower than budgeted. The Society reports a deficit of \$7,499.81 for 2016.

The following table summarizes the net surplus/loss of our main events/items in 2016.

Event	Income	Expenses	Net
AGM/Awards Dinner	\$2,305.00	\$4,344.97	-\$2,039.97
Geology Calendar	\$5,094.30	\$4,191.94	\$902.36*
Bonspiel	\$705.00	\$837.42	-\$132.42
Field trip	\$4,985.20	\$7,644.85	-\$2,659.65
Golf tournament	\$1,690.00	\$1,623.47	-\$66.53
Luncheon talks (10)	\$2,667.00	\$7,227.56	-\$4,560.56
Merchandise/publication sales	\$5,482.17	\$1,496.45	\$3,985.72

* Some income outstanding.

Our significant sources of income in 2016 included:

- 1) the annual APEGS Constituent Members grant (\$4,000); and
- 2) publication and merchandise sales (\$3,985.72), a significant portion of which is via online sales of digital publications through the AAPG Datapages website.

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 \$4560.56, or \$460 per talk, in 2016, which is down from \$940 per talk in 2015 after coordinators decided to focus on local speakers.

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

- 1) *Education and Outreach*: The one-time grant that comprised the former *Geoscape* account was essentially depleted in 2016. As funding in this account is no longer related directly to the original *Geoscape* project, the account has been renamed *Education and Outreach*. \$95.35 remains but other expenses of \$1,613.53 were paid out of the main Society operating budget due to a lack of funds in this account. 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 and update the *Geoscape* website. The biggest 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 past year, the Society investigated other sources of external funding and did receive some funding, but nothing long term and not enough to cover the expenses in 2016. The current and upcoming Executive would welcome any suggestions for funding or volunteers to aid in sourcing long-term funding.



- 2) *Saskatchewan Geological Open House*: The conference 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; any loss is not expected to be covered by the Society. Once all bills for the 2016 event have been paid and the GST Input Tax Credit received, this account will contain \$38,197.82.
- 3) *WBPC Talks Grant*: This 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.

The Society thus has \$31,545.69 in its main account for Society events at the end of 2016.

The Society renewed its TD one-year cashable GIC in April. As of April, 18th, 2016, the GIC had a value of \$31,736.98; the interest rate for 2016–2017 is 0.4% 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.

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 2017, without including Open House, are ~\$60,786; thus, the Society needs between \$15,200 and \$30,400 in reserves. The Society currently has \$31,545.69 in its general account and \$31,736.98 in a GIC, for a total of \$63,282.67, and thus has an acceptable amount of money going forward into 2017.

For the *2017 Budget*, the Saskatchewan Geological Open House budget was produced separately because the conference is meant to run as a break-even event and the income and expenses are kept separately and thus have no bearing on the income and expenses of the general Society finances. The Society is projected to run a deficit again in 2017, which it has done for 10 out of the past 15 years.

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 commonly included with the Executive Meeting Minutes on our website (www.sgshome.ca/business/meetings).

Respectfully submitted,

Michelle Hanson
Treasurer



Profit and Loss Statement - 2016

Saskatchewan Geological Society Incorporated		
Profit and Loss		
January - December 2016		
		TOTAL
INCOME		
AGM Income		0.00
Donations		300.00
Ticket Sales		2,005.00
Total AGM Income	\$	2,305.00
Annual Field Trip Income		0.00
Registration Fees		5,000.00
Total Annual Field Trip Income	\$	5,000.00
Calendar	\$	4,257.70
Corporate Sponsorship	\$	500.00
Curling Funspiel Income		0.00
Tickets		705.00
Total Curling Funspiel Income	\$	705.00
Geoscape/Education and Outreach Income	\$	2,500.00 → Includes \$1000 late income for 2015
GIC interest	\$	158.76
Golf Tournament Income		0.00
Registration Fee		1,690.00
Total Golf Tournament Income	\$	1,690.00
Grants		0.00
A.P.E.G.S.		0.00
Membership Grant		4,000.00
Total A.P.E.G.S.	\$	4,000.00
Total Grants	\$	4,000.00
GST	\$	843.39
Luncheon Income		0.00
Ticket Sales		2,667.00
Total Luncheon Income	\$	2,667.00

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Membership Dues		0.00	
Active		1,090.73	
Corporate		300.00	
Student		28.65	
Total Membership Dues	\$	1,419.38	→ This total is missing \$1466.15 that was transferred late (after Dec. 31, 2016) from the PayPal account plus D.M. Kent Club membershins
Merchandise Sales		0.00	
Access Copyright Income		63.01	
Datapages Royalty Fees		3,626.97	
Postage and Handling		30.00	
Promotional Materials		1,300.00	
Volume Sales		682.66	
Total Merchandise Sales	\$	5,702.64	
Open House - Society related		0.00	
Public Lecture		0.00	
Sponsorships		250.00	
Total Public Lecture	\$	250.00	
Total Open House - Society related	\$	250.00	
Open House Conference	\$	76,835.79	
Shipping Income	\$	110.52	
Total Income	\$	108,945.18	
Gross Profit	\$	108,945.18	
EXPENSES			
AGM Expenses		0.00	
Catering		4,206.13	
Misc.		138.84	
Misc. award		314.70	
Plaque Engraving		22.52	
Total AGM Expenses	\$	4,682.19	
Annual Field Trip Expenses		0.00	
Accommodations		4,017.73	
Fuel		721.07	
Groceries		800.50	
Miscellaneous		317.60	
Registration Refund		-500.00	
Vehicle Rental		2,287.95	
Total Annual Field Trip Expenses	\$	7,644.85	

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Awards		0.00	
John Lewry Travel Grant		1,000.00	
Lazlo Fuzesy		750.00	→ Includes 2015 & 2016 winners
Lazlo Fuzesy 2nd Place		150.00	
President's Award		500.00	→ Includes 2015 & 2016 winners
President's Award 2nd place		150.00	
Robert Milner		250.00	
Travel Expenses		100.00	
Total Awards	\$	2,900.00	
Calendar, SGS publication		0.00	
Mailing		58.34	
Printing		4,138.20	
Reimbursement		28.00	
Total Calendar, SGS publication	\$	4,224.54	
Canada Post		0.00	
P.O. Box Rental		187.95	
Stamps		89.25	
Volume Postage		143.92	
Total Canada Post	\$	421.12	
Christmas Party		0.00	
Catering		194.52	
Total Christmas Party	\$	194.52	
Clothing order	\$	1,350.00	
Curling Funspiel		0.00	
Catering		472.42	
Ice Rental		315.00	
Misc.		50.00	
Total Curling Funspiel	\$	837.42	
Executive Meeting Expenses		0.00	
Food and Beverage		390.07	
Total Executive Meeting Expenses	\$	390.07	
Geoscape/Education and Outreach		0.00	
Open House Public Lecture		2,003.98	
Regina Public Lecture		1,788.47	
School lecture		0.00	
Bussing		1,761.29	
Lunch for volunteers		80.00	
Planning committee expenses		60.02	
Total School lecture	\$	1,901.31	
Total Geoscape/Education and Outreach	\$	5,693.76	

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Golf Tournament	0.00	
Alcohol	260.09	
BBQ Supplies	269.43	
Catering	324.04	
Green Fees	769.91	
Total Golf Tournament	\$ 1,623.47	
Insurance	0.00	
Liability Insurance	1,219.00	
Total Insurance	\$ 1,219.00	
Luncheon Expenses	0.00	
A.A.P.G. Distinguished Lectures	483.99	
Bank charges	7.50	
Catering	3,744.15	
Speaker Expenses	0.00	
Accommodation	1,213.64	
Meals	498.96	
Travel	982.52	
Total Speaker Expenses	\$ 2,695.12	
Speaker gifts	290.80	
Total Luncheon Expenses	\$ 7,221.56	
Office Supplies	\$ 192.88	
Open House - Soc. related	0.00	
Core workshop	0.00	
Catering	409.76	
Total Core workshop	\$ 409.76	
U. of R. Student Travel Subsidy	300.00	
Total Open House - Soc. related	\$ 709.76	
Open House Conf.	0.00	
Conference venue & food	46,195.25	
Displays	9,368.47	
Door prize	209.99	
Misc. items	4,055.31	
Program printing	996.50	
Short Course	694.11	
Signs	456.23	
Website	899.06	
Total Open House Conf.	\$ 62,874.92	

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Publication printing	\$	51.45	
Saskatchewan Incorporation Fee	\$	20.78	
SGS Website		0.00	
Hosting		660.00	
Total SGS Website	\$	660.00	
Total Expenses	\$	102,912.29	
PROFIT	\$	6,032.89	
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Balance Statement - 2016

Saskatchewan Geological Society Incorporated		
Balance Sheet		
As of December 31, 2016		
	TOTAL	
ASSETS		
Current Assets		
Undeposited Funds	-45.00	
Cash and cash equivalents		
Chequing	31,545.69	
Deferred Revenue	0.00	
Education and Outreach	95.35	
SK Geological Open House	95,870.92	
WBPC talks grant	568.18	
Total Chequing	\$ 128,080.14	
Pettie Cash	300.00	
Total Cash and cash equivalents	\$ 128,380.14	
Accounts receivable (A/R)		
Accounts Receivable	3,773.54	
Total Accounts receivable (A/R)	\$ 3,773.54	
Total Current Assets	\$ 132,108.68	
Non-current Assets		
TD GIC	31,736.98	
Property, plant and equipment:		
Dell Laptop	1,768.05	
Sask. Savings Bonds	0.00	
Cash (Bond Interest)	0.00	
Fixed Income (28,900 units)	0.00	
Total Sask. Savings Bonds	\$ 0.00	
Total Property, plant and equipment:	\$ 1,768.05	
Total Non-current Assets	\$ 33,505.03	
Total Assets	\$ 165,613.71	

→After all expenses for the 2016 event are paid, this account will hold \$38,197.82

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LIABILITIES AND EQUITY		
Current Liabilities		
GST/HST Payable	2,292.89	
Accounts Payable		
Accounts Payable	0.00	
Total Accounts Payable	\$ 0.00	
Total Current Liabilities	\$ 2,292.89	
Equity		
Opening Bal Equity	174,808.49	
Retained Earnings	-17,520.56	
Profit for the year	6,032.89	
Total Equity	\$ 163,320.82	
Total Liabilities and Equity	\$ 165,613.71	
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Proposed 2017 Budget

General Society	2014 Actual		2015 Actual		2016 Actual		3-year average	2017 Proposed		NOTES
	Main	Sub	Main	Sub	Main	Sub		Main	Sub	
NET SURPLUS/LOSS	\$ (20,946.23)		\$ 4,428.19		\$ (7,499.81)		\$ (8,005.95)	\$ (7,936.00)		
INCOME	\$ 23,260.53		\$ 57,755.80		\$ 31,814.20		\$ 37,610.18	\$ 52,850.00		
Annual General Meeting	\$ 2,205.00		\$ 2,050.00		\$ 2,305.00		\$ 2,186.67	\$ 2,200.00		
APEGGS constituent society grant	\$ 4,000.00		\$ 4,000.00		\$ 4,000.00		\$ 4,000.00	\$ 4,000.00		
Athabasca Basin Drillcore Workshop	n/a		\$ 5,582.62		n/a		n/a	\$ 6,000.00		
Sponsorship			\$ 1,000.00				n/a	\$ 1,500.00		
Registration			\$ 4,582.62				n/a	\$ 4,500.00		
Calendar	\$ -		\$ 4,935.07		\$ 5,094.30		n/a	\$ 5,000.00		
Sponsorship			\$ 2,032.10		\$ 2,146.80		n/a	\$ 2,100.00		
Sales			\$ 2,902.97		\$ 2,947.50		n/a	\$ 2,900.00		
Curling bonspiel	\$ 885.00		\$ 705.00		\$ 705.00		\$ 765.00	\$ 750.00		
Education & Outreach			\$ -		\$ 1,000.00		n/a	\$ 2,900.00		
School talk bussing		\$ -	\$ 1,000.00		\$ 1,000.00		n/a	\$ 2,900.00		
Field trip	\$ 2,500.00		\$ 6,125.00		\$ 4,985.20		\$ 4,536.73	\$ 8,500.00		→ Estimated based on 16 regular participants at \$500 & two student participants at \$250.
Golf tournament	\$ 1,275.00		\$ 2,265.00		\$ 1,690.00		\$ 1,743.33	\$ 1,750.00		
Luncheon meeting tickets	\$ 3,530.00		\$ 3,635.00		\$ 2,667.00		\$ 3,277.33	\$ 3,300.00		
Membership Dues	\$ 4,233.04		\$ 3,655.71		\$ 2,885.53		\$ 3,591.43	\$ 3,000.00		
Merchandise/publication sales	\$ 3,432.49		\$ 4,102.40		\$ 5,482.17		\$ 4,339.02	\$ 4,000.00		
Clothing	\$ -		\$ -		\$ 1,109.53		n/a	\$ -		
Publications	\$ 3,432.49		\$ 4,102.40		\$ 4,372.64		\$ 3,969.18	\$ 4,000.00		
Sponsorships	\$ 1,200.00		\$ 1,000.00		\$ 1,000.00		\$ 1,066.67	\$ 1,450.00		
Corporate	\$ 400.00		\$ -		\$ -		n/a	\$ 500.00		
Open House Public Lecture	\$ 500.00		\$ 500.00		\$ 500.00		\$ 500.00	\$ 500.00		
Regina Public Lecture	\$ 300.00		\$ 500.00		\$ 500.00		\$ 433.33	\$ 450.00		
WBPC workshop	\$ -		\$ 19,700.00		\$ -		n/a	\$ 10,000.00		→ It is estimated that income from this event will be lower than usual.
EXPENSE	\$ 44,206.76		\$ 53,327.61		\$ 39,314.01		\$ 45,616.13	\$ 60,786.00		
Accounting	\$ 3,960.00		\$ -		\$ -		n/a	\$ 4,156.00		
Quickbooks Online	\$ -		\$ -		\$ 26.00		n/a	\$ 156.00		
Review Engagement report	\$ 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. Also, if the membership votes to do a financial audit, more money will be required.
Administrative	\$ 17.65		\$ 37.58		\$ 231.66		\$ 95.63	\$ 100.00		
Annual General Meeting	\$ 3,023.75		\$ 3,716.08		\$ 4,344.97		\$ 3,694.93	\$ 4,400.00		
Athabasca Basin Drillcore Workshop	n/a		\$ 1,234.14		n/a		n/a	\$ 3,450.00		
Catering			\$ 409.76				n/a	\$ 600.00		
Fees (Stripe)			\$ 142.38				n/a	\$ 150.00		
Printing			\$ 682.00				n/a	\$ 700.00		
Shipping			\$ -				n/a	\$ 2,000.00		
Awards/Grants	\$ 2,459.65		\$ 1,434.69		\$ 2,787.22		\$ 2,227.19	\$ 2,600.00		
John Lewry Travel Grant	\$ 1,000.00		\$ -		\$ 1,000.00		n/a	\$ 1,000.00		
AGM awards	\$ 1,159.65		\$ 1,184.69		\$ 1,487.22		\$ 1,277.19	\$ 1,300.00		
Open House travel subsidy	\$ 300.00		\$ 250.00		\$ 300.00		\$ 283.33	\$ 300.00		
Banners	\$ -		\$ 655.60		\$ -		n/a	n/a		
Calendar (printing & mailing)	\$ -		\$ 4,300.88		\$ 4,191.94		n/a	\$ 4,250.00		
Canada Post (postage & post box rental)	\$ 407.06		\$ 529.96		\$ 421.12		\$ 452.71	\$ 450.00		
Christmas Party	\$ -		\$ -		\$ 194.52		n/a	\$ 200.00		
Clothing	\$ -		\$ -		\$ 1,445.00		n/a	\$ -		
Curling bonspiel	\$ 730.00		\$ 763.92		\$ 837.42		\$ 777.11	\$ 850.00		
Education & Outreach	\$ 4,616.66		\$ 4,583.25		\$ 6,043.76		\$ 5,081.22	\$ 6,650.00		
Open House Public Lecture	\$ 2,350.14		\$ 837.02		\$ 2,003.98		\$ 1,730.38	\$ 2,000.00		
School talk bussing	\$ -		\$ 1,922.20		\$ 1,761.29		n/a	\$ 2,600.00		
School talk misc.	\$ -		\$ 801.38		\$ 140.02		n/a	\$ 500.00		
Geoscape website	\$ 1,916.52		\$ -		\$ -		n/a	\$ -		
Regina Science Fair	\$ 350.00		\$ 350.00		\$ 350.00		\$ 350.00	\$ 350.00		
Regina Public Lecture	\$ -		\$ 544.53		\$ 1,788.47		n/a	\$ 1,200.00		
SCIEMATICS	\$ -		\$ 128.12		\$ -		n/a	\$ -		
Field Trip	\$ 4,919.01		\$ 11,374.38		\$ 7,644.85		\$ 7,979.41	\$ 11,300.00		→ Estimate based on full subscription of 18 people. Historically, the field trip is subsidized by ~\$2800 on average. Above that, participants may be expected to pay higher fees.
Golf Tournament	\$ 1,494.18		\$ 2,039.91		\$ 1,623.47		\$ 1,719.19	\$ 1,700.00		
Insurance	\$ 1,195.00		\$ 1,207.00		\$ 1,219.00		\$ 1,207.00	\$ 1,230.00		
Luncheon meeting (catering)	\$ 7,417.86		\$ 7,428.84		\$ 3,744.15		\$ 6,196.95	\$ 4,000.00		
Lunches for Executive Meetings	\$ 882.72		\$ 594.58		\$ 390.07		\$ 622.46	\$ 650.00		
Publications (printing)	\$ -		\$ 98.70		\$ 51.45		n/a	\$ 100.00		
Speaker Expenses	\$ 6,790.70		\$ 6,450.54		\$ 3,483.41		\$ 5,574.88	\$ 5,700.00		
Misc. (honorariums, AAPG fees)	\$ 2,941.09		\$ 1,470.33		\$ 497.49		\$ 1,636.30	\$ 1,600.00		
accommodation	\$ 1,246.38		\$ 1,587.49		\$ 1,213.64		\$ 1,349.17	\$ 1,400.00		
food	\$ 2,603.23		\$ 525.51		\$ 498.96		\$ 1,209.23	\$ 700.00		
transportation	\$ -		\$ 1,955.00		\$ 982.52		n/a	\$ 1,500.00		
speaker gifts	\$ -		\$ 912.21		\$ 290.80		n/a	\$ 500.00		
Website	\$ 6,292.52		\$ 728.76		\$ 660.00		\$ 2,560.43	\$ 2,800.00		
WBPC Workshop	\$ -		\$ 6,148.80		\$ -		n/a	\$ 6,200.00		

Saskatchewan Geological Open House

Saskatchewan Geological Open House	2014 Actual		2015 Actual		2016 Actual		3-year average	2017 Proposed	
	Main	Sub	Main	Sub	Main	Sub		Main	Sub
NET SURPLUS/LOSS	\$ 16,149.26		\$ 6,375.21		\$ 5,801.36		\$ 9,441.94	\$ 750.00	
INCOME	\$ 85,750.00		\$ 83,577.50		\$ 84,490.00		\$ 84,605.83	\$ 83,000.00	
SK Geological Open House conference	\$ 85,750.00		\$ 83,577.50		\$ 84,490.00		\$ 84,605.83	\$ 83,000.00	
City of Saskatoon grant	\$ 1,000.00		\$ 1,000.00		\$ 2,500.00		\$ 1,500.00	\$ 1,000.00	
Exhibitor booths	\$ 45,750.00		\$ 49,612.50		\$ 45,675.00		\$ 47,012.50	\$ 46,000.00	
Short course registration	\$ 17,500.00		\$ 10,965.00		\$ 13,815.00		\$ 14,093.33	\$ 14,000.00	
Sponsorship	\$ 21,500.00		\$ 22,000.00		\$ 22,500.00		\$ 22,000.00	\$ 22,000.00	
EXPENSE	\$ 69,600.74		\$ 77,202.29		\$ 78,688.64		\$ 75,163.89	\$ 82,250.00	
SK Geological Open House conference	\$ 69,600.74		\$ 77,202.29		\$ 78,688.64		\$ 75,163.89	\$ 82,250.00	
A/V	\$ -		\$ -		\$ 5,553.45		n/a	\$ 5,600.00	
Conference venue & catering	\$ 45,878.14		\$ 46,195.25		\$ 51,092.28		\$ 47,721.89	\$ 52,000.00	
Displays	\$ 10,322.59		\$ 10,871.47		\$ 9,815.06		\$ 10,336.37	\$ 10,400.00	
Lanyards & badges	\$ -		\$ 1,870.00		\$ 2,206.56		n/a	\$ 200.00	
Misc.	\$ 329.73		\$ 382.87		\$ 219.99		\$ 310.86	\$ 350.00	
Program	\$ -		\$ 727.23		\$ 1,046.33		n/a	\$ 1,100.00	
Short course	\$ 4,723.66		\$ 7,065.24		\$ 1,083.16		\$ 4,290.69	\$ 4,300.00	
Signs	\$ -		\$ 939.84		\$ 477.96		n/a	\$ 500.00	
SK Geol. Society honorarium & expenses	\$ 1,000.00		\$ 2,242.16		\$ 1,787.14		\$ 1,676.43	\$ 2,300.00	
Tote bags	\$ -		\$ 1,293.60		\$ 1,942.50		n/a	\$ 2,000.00	
Fees (PayPal/Stripe)	\$ 2,465.36		\$ 2,380.61		\$ 2,364.21		\$ 2,403.39	\$ 2,400.00	
Website	\$ 4,881.26		\$ 3,234.02		\$ 1,100.00		\$ 3,071.76	\$ 1,100.00	

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



6. PROGRAM CHAIR'S REPORT

2016 was an active year for the SGS speaker program, which hosted a total of seventeen speakers, including three AAPG distinguished lecturers, one GAC Howard Street Robinson Lecturer, and one SEG Thayer Lindsley Lecturer. We were also fortunate to draw on local expertise with several talks from researchers at the University of Saskatchewan, the Saskatchewan Geological Survey, and industry members working in the province. The public lecture this year was given at the Royal Saskatchewan Museum by Dr. William McKinnon on NASA's New Horizons mission, which was very well attended and received and followed by visits to several schools with attendance of over 1500 students. The SGS Open House public lecture was given by Dr. William Hay, who spoke on Cretaceous climate. We would like to extend our gratitude to all the speakers who devoted the time and effort to deliver a diverse range of high quality talks and to those members and guests who attended.

Following are a list of the talks hosted by the SGS in 2016:

Dr. Julia Wellner

AAPG Distinguished Lecturer

January 25, 2016

Antarctica's sedimentary archives of past glacial history: tools for understanding climate change

Luc Cabanole

University of Saskatchewan

February 10, 2016

Anatomy of a Petroleum Source Rock

Dr. Joyce McBeth

University of Saskatchewan

February 19, 2016

Environmental microbiology of mine sites

Shawn Harvey

Cameco

April 8, 2016

Geological and Geotechnical Modelling of the Cigar Lake Uranium Deposit

Dr. William McKinnon

Washington University/NASA New Horizons

April 19, 2016

NASA New Horizons: Pluto and Beyond

Dr. Omid Mamoodi

Saskatchewan Geological Survey

May 4th, 2016

Geophysical inversion of gravity and magnetic data for prediction of lithological units



Dr. Lorne Doig

University of Saskatchewan
May 26, 2016
Toxicology of Lake Diefenbaker

Shawna Argue

APEGS Continuing Professional Development Committee
September 15th, 2016
Continuing Professional Development

Dr. Pete Rose

AAPG
September 27th, 2016
Cognitive Bias

Dr. Andy St.Onge

PFS Interpretations Ltd
October 5th, 2016
The implications of a Cretaceous polygonal fault system in Saskatchewan

Dr. Lorne Rosenthal

October 12th, 2016
Feast and Famine in the Great White North

Dr. Rebecca Jamieson

2016-17 GAC Howard Street Robinson Lecturer
October 26th, 2016
How do large hot orogens work? Lessons from the middle crust.

Dr. Cees van Staal

Geological Survey of Canada
November 16th, 2016,
The northern Appalachians and British Caledonides: an Early Paleozoic accretionary orogen before the Late Paleozoic assembly of Pangea.

Dave Thomas

Cameco
November 23rd, 2016
What does an Athabasca Basin Uranium Deposit footprint look like? – Empirical characteristics and the relevance to exploration



Dr. William Hay

University of Colorado

November 28th, 2016

Rethinking Cretaceous Climate

Dr. Jeremy Richards

SEG Thayer Lindsley Lecturer

December 1st, 2016

Tectonomagmatic controls on arc metallogeny

Dr. Per Pedersen

AAPG Allan P. Bennison Distinguished Lecturer

December 12th, 2016

Unconventional tight light oil play types, Western Canada Sedimentary Basin

For the upcoming 2017 session, we have arranged the following tentative schedule of speakers (be sure to check the Rock Record, the website (sgshome.ca), and emails for more information):

Dr. Charlie Harper – Jan. 17th Mega Fallback Breccia and Impact Melt Bodies Discovered at the Deeply Eroded Carswell Impact Structure, Northwestern Saskatchewan, Canada.

Patricia Sandberg – Feb 1st Sun Dogs and Yellowcake: Gunnar Mines – A Canadian Story

Dr. Steve Grasby – Feb 15th Geothermal Energy

Dr. Stephen Bend – Mar. 15th History of Microscopy

Dr. Tim Collett (AAPG) – Apr. 21st Gas Hydrate Petroleum System Analysis in Marine and Arctic Permafrost Environments

Megan Binner – (TBD) Garner River Gold Exploration Project

Respectfully submitted,

Jason Cosford, Program Chair

Mike Thomas, Assistant Program Chair



7. COMMITTEE REPORT'S

Education and Outreach Committee (EOC) Report

EOC Chair: Kate MacLachlan

Members: Fran Haidl, Erin Raaf, Megan Love (Michelle Hanson, until October 2016)

As chair of the committee I would like to thank all the committee members and volunteers who have helped to undertake our various activities. I look forward to serving as chair again in 2017.

Geoscape Southern Saskatchewan

We no longer have a separate Geoscape sub-committee. Geoscape has been incorporated as one of the key elements of the Education and Outreach Committee as a whole. As of the beginning of 2016 the geoscape budget was running out. In March we submitted a funding proposal the Canadian Geological Foundation (CGF) and received \$2000 toward work on the geoscape lesson plans. The proposed work includes updating the currently completed lesson plans to the new curriculum and finishing the incomplete lesson plans. Work is underway on updating the current lesson plans to the new curriculum and we will continue this work in 2017.

School Lecture

In 2016 the school lecture was marketed to grades 6-9 to achieve the strongest curriculum links. The lectures were held on April 20th at Miller High School, both morning and afternoon, and April 21st, at O'Neill High School, in the morning only. The lecture, entitled New Horizons: Pluto and Beyond, was given by Dr. William McKinnon of the NASA New Horizons Mission team. Because of the nature of the speaker and lecture content we returned to the lecture-only format this year. Because we did not have the hands on activities we were able to increase the number of attendees. The turnout was excellent with more than 1500 students total over both days. Once again this year we offered funding for bussing, which contributed to the excellent turnout. We would like to thank the APEGS K-12 committee for their contribution of \$1000 towards the cost of this year's bussing. We were also successful in getting \$1900 from CGF towards bussing for 2017.

Public Lectures

The public lectures were organized by the Program Chair and Program Co-chair. The lecture in Regina was coordinated with the school lectures. Dr. McKinnon was originally invited to give the public lecture and it ended up being the same week the school lecture was planned for, so we took advantage of the opportunity and asked him to do both. The public lecture was held the evening of April 19th at the Royal Saskatchewan Museum. There was a great turnout of around 200 people, who were treated to an excellent talk and amazing photos of Pluto and Beyond.



The Saskatoon public lecture was held in association with the Saskatchewan Geological Open House. This year we were very pleased to have Dr. William Hay, paleoceanographer, paleoclimatologist and Professor Emeritus from Colorado State University, who presented a talk entitled Rethinking Cretaceous Climate, Tuesday November 29th, at the Delta Bessborough Hotel. The talk was excellent and attended by approximately 100 people. This lecture was co-sponsored by the Saskatchewan Mining Association (SMA), the Saskatchewan Geological Survey and the Association of Professional Engineers and Geoscientists of Saskatchewan (APEGS).

Respectfully submitted,

Kate MacLachlan
EOC Chair

Field Trip Committee Report

EOC Chair: John Lake
Members: Mike Thomas
Kim Kreis

This year thirteen lucky members of the Saskatchewan Geological Society viewed spectacular outcrops in Jasper National Park, Alberta. The trip ran from August 18th – 22nd, 2016. Dr. Ben Rostron (University of Alberta) showed participants some incredible exposures of Paleozoic sediments and Laramide structures. Day one started with the Nikanassan/Cadomin disconformity. We saw the contact between the Perdrix, Mt. Hawk and Palliser (Devonian) at Roche Miette, walked along an incredible alluvial fan valley fill in the Miette Valley, and saw an overview of the Pyramid Thrust in the Pallisades (including the Mississippian section).

Day two started with a visit to Athabaska Falls and a view of the 800m Gog Group braided stream sediments. We viewed the unconformity between the Ordovician and Devonian and saw Precambrian thrust over Cretaceous shales. Most of the day was spent on Snoring – Chataman Mountain north of Jasper where we walked the entire carbonate section from Palliser to Banff, Pekisko, Shunda, Turner Valley and Mount Head Formations, including the Eilerslie cherts. This is classic Alberta Geology at its best, exposed continuously because the beds are standing vertically due to thrusting. The boulder of Precambrian Ediacarin microfauna was pretty impressive.

Day three started at Cold Sulphur Springs near Maligne Lake and included more exposures of the Mississippian carbonate section. The highlights included some textbook ichnology (Astrosoma, Diplocraterion and lobster burrows) preserved in silica at the top of the Mount Head Formation. We also saw incredible slump blocks at the contact between the Mississippian and base of Permo-Triassic. We were able to duck the rain drops while in the field. It rained both on our way to Edmonton and on the way back to Regina. We would like to thank Dr. Ben Rostron for leading this well organized and



informative field trip.

Respectfully submitted,
John Lake, SGS Field Trip Coordinator

Geological Calendar Committee Report

Chair: Ralf Maxeiner

Regina Members: Ken Ashton
Monica Cliveti
Jason Cosford (Design)
Janis Dale (Secretary)
Michelle Hanson

Saskatoon Members: Kevin Ansdell
Tim Prokopiuk



A second edition of a wall calendar celebrating Saskatchewan Geoscience was published by the Society. The mission statement of the calendar remains the same as in its first edition: The calendar is supposed 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. For the 2017 edition the committee has tweaked the four educational pages at the beginning of the calendar. 'Our History' is largely unchanged and provides a geological time scale with four snap shots of geological events that pertain to our Province. 'Our People' is a new page in the 2017 Calendar and celebrates the achievements of Tom Sibbald and Don Kent. 'Our Resources' in 2017 highlights our potash deposits, and 'Our Landscape' is focused on meltwater spillways.

For those who have not yet purchased a calendar it 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 has made a small profit of a few hundred dollars. We had again printed 1000 calendars, and we will likely be left with about 100 calendars, most of which will be distributed for free to Regina and Saskatoon classrooms.

ITEM	Amount	GST	Profit
INCOME	\$4,918.30	\$131.98	
Sponsorship	\$2,146.80		
Sales	\$2,771.50		
EXPENSE	\$4,191.94	\$188.10	
Printing	\$4,138.20		
Mailing	\$53.74		
NET (INCOME-EXPENSE)	\$726.36	\$(56.12)	\$670.24

The following sponsors are thanked for their generous contributions towards the 2017 Geological Wall Calendar: The Saskatchewan Mining Association, D.M. Kent Consulting Geologist, Dave Thomas, Denison Mines Corp., Diamond Projects Inc., Discovery Int'l Geophysics, GEM Oil Inc., Hudbay Minerals Inc., Hy-Tech Drilling, J.D. Mollard and Associates, North Rim, Osprey Wings Ltd., Petroleum Technology Research Centre, PrintWest, Rio Tinto Canada, Saskatchewan Research Council, Western Potash Corp. Because the calendar fits in very well with the mandate of the Society, which is to promote the study and practice of the earth sciences and to promote the earth sciences among the general public, and because it generated some much-needed funds, it can be considered a success. Provided the committee is willing to continue and provided the next Executive approves it, there will likely be a third edition of the Saskatchewan Geology Calendar for 2018.

I would like to thank all the committee members for their contributions and tremendous efforts in helping to make the Geology Calendar a reality, a success and a fun project to be working on. The committee would also like to thank all of the people who contributed photos to the calendar and in particular would like to acknowledge Sally Gray from the University of Regina, our 2017 photo contest winner.

Respectfully submitted,

Ralf Maxeiner,
Committee Chair



Geological Open House Committee Report

Open House Committee Members

Chair: Jason Berenyi

Society reps:

Ralf Maxeiner

Ryan Morelli

Michelle Hanson

Murray Rogers

Survey reps:

Keara Lueke

Thomas Love

Amanda Palaniuk

Dustin Zmetana

The 46th Annual Open House was held Nov.28-30th, 2016 at the Delta Bessborough Hotel in Saskatoon. Despite the tough times that the minerals industry are currently facing, the conference was very well attended with over 750 delegates and over 60 exhibitors. There were 38 geologic posters on display including 11 graduate and 9 undergraduate student presenters.

Four technical sessions were held from Nov. 29 - 30th and featured 29 geoscience talks by Survey staff, industry and academic researchers. Forty-four delegates attended an exploration geochemistry short course presented by Analytical Solutions Ltd., REFLEX Geosciences and the Saskatchewan Research Council. 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 are included below, as well as in the budget section of this report.

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.



2017 Open House Budget:

	2014 Actual		2015 Actual		2016 Actual		3-year average	2017 Proposed	
	Main	Sub	Main	Sub	Main	Sub		Main	Sub
NET SURPLUS/LOSS	\$ 16,149.26		\$ 6,375.21		\$ 5,876.55		\$ 9,467.01	\$ 850.00	
INCOME	\$ 85,750.00		\$ 83,577.50		\$ 84,190.00		\$ 84,505.83	\$ 83,000.00	
SK Geological Open House conference	\$ 85,750.00		\$ 83,577.50		\$ 84,190.00		\$ 84,505.83	\$ 83,000.00	
City of Saskatoon grant		\$ 1,000.00		\$ 1,000.00		\$ 2,500.00	\$ 1,500.00		\$ 1,000.00
Exhibitor booths		\$ 45,750.00		\$ 49,612.50		\$ 45,375.00	\$ 46,912.50		\$ 46,000.00
Short course registration		\$ 17,500.00		\$ 10,965.00		\$ 13,815.00	\$ 14,093.33		\$ 14,000.00
Sponsorship		\$ 21,500.00		\$ 22,000.00		\$ 22,500.00	\$ 22,000.00		\$ 22,000.00
EXPENSE	\$ 69,600.74		\$ 77,202.29		\$ 78,313.45		\$ 75,038.83	\$ 82,150.00	
SK Geological Open House conference	\$ 69,600.74		\$ 77,202.29		\$ 78,313.45		\$ 75,038.83	\$ 82,150.00	
A/V		\$ -		\$ -		\$ 5,553.45	n/a		\$ 5,600.00
Conference venue & catering		\$ 45,878.14		\$ 46,195.25		\$ 51,092.28	\$ 47,721.89		\$ 52,000.00
Displays		\$ 10,322.59		\$ 10,871.47		\$ 9,815.06	\$ 10,336.37		\$ 10,400.00
Lanyards & badges		\$ -		\$ 1,870.00		\$ 2,206.56	n/a		\$ 200.00
Misc.		\$ 329.73		\$ 382.87		\$ 219.99	\$ 310.86		\$ 350.00
Program		\$ -		\$ 727.23		\$ 1,046.33	n/a		\$ 1,100.00
Short course		\$ 4,723.66		\$ 7,065.24		\$ 695.11	\$ 4,161.34		\$ 4,200.00
Signs		\$ -		\$ 939.84		\$ 477.96	n/a		\$ 500.00
SK Geol. Society honorarium & expenses		\$ 1,000.00		\$ 2,242.16		\$ 1,800.00	\$ 1,680.72		\$ 2,300.00
Tote bags		\$ -		\$ 1,293.60		\$ 1,942.50	n/a		\$ 2,000.00
Fees (PayPal/Stripe)		\$ 2,465.36		\$ 2,380.61		\$ 2,364.21	\$ 2,403.39		\$ 2,400.00
Website		\$ 4,881.26		\$ 3,234.02		\$ 1,100.00	\$ 3,071.76		\$ 1,100.00
<i>* Items in red are still outstanding and/or estimations at the time of budget production.</i>									

Respectfully submitted,

Jason Berenyi,
Open House Committee Chair



8. SASKATCHEWAN GEOLOGICAL SOCIETY AWARDS

Honour Roll Committee Report

The Honour Roll Sub-Committee, established in 2002, currently comprises Dr. Don Kent (Chairman); Dr. Jim Christopher; Dr. Charlie Harper; Kim Kreis and David MacDougall. The committee considers nominations received from SGS members via the SGS Executive, and chooses a candidate who receives the honour at the AGM & Awards Dinner in early February. The recipient's name is inscribed on a plaque which hangs in the Saskatchewan Energy and Resources Subsurface Laboratory on Dewdney Avenue. The Honour Roll recognizes those whose contribution to the science of geology has significantly enhanced our understanding of Saskatchewan's geological history, character and mineral or energy resources. There are at present twenty-five members on the Honour Roll. Dr. Tom Sibbald was the 2016 inductee, and the following citation was presented at the 205 AGM by Charlie Harper:

Honour Roll Citation for Thomas I.I. Sibbald - inducted at the AGM on Feb. 6th, 2016

Thomas Sibbald was born in England on 24th September, 1942, during the turmoil of WW2. He was raised in southern England and from age 11 to 17 he attended Clifton College, a private school in Bristol. Tom chose to follow his passion for nature and rocks and embark on a career in geology. We were fortunate that he did. He received his B.Sc Honours in Geology in 1965 from the University of Edinburgh, and completed field work in Iceland, Switzerland and northern Italy. Tom began his Ph.D geology program in 1965 at Imperial College, University of London under the guidance of renowned structural geologist, John Ramsay.

During his time at Imperial, Tom was a part-time geology demonstrator from 1965 to 1970, and a part-time geology lecturer at Norwood Technical College in London from 1969-70. He also met Penny during this time and they were married in 1967. Penny and their first born son, accompanied Tom to the Swiss Alps where he completed his Ph.D field work, which formed the basis of his dissertation on the Structural and Metamorphic Geology in the Swiss Pennine Alps. Tom was awarded a Ph.D Geology Degree and D.I.C (Diploma of Imperial College) in 1971.

That spring Tom, Penny and their two young sons, aged 3 and 18 months, arrived in Regina, where Tom had accepted a Project Geologist position with the Precambrian Geology Division at the Saskatchewan Department of Mineral Resources, commonly called D.M.R. Tom began his 27-year career with the Saskatchewan Geological Survey. He prepared for a field project, and in less than a month after arriving in Canada, he travelled to northern Saskatchewan where he mapped the Milton Island West Half Area on Reindeer Lake.

Because he was unfamiliar with working and living in the northern Canadian wilderness, Tom was teamed with a recently graduated (1971) Geological Engineering student from Saskatoon, who would be his Senior Geological Assistant. I had already spent three summers in the bush, so I was more experienced with camp mobilization and dealing with camp issues. Tom's mentorship that summer expanded my knowledge and interest in structural and metamorphic geology, and benefitted me throughout my career.

The Precambrian Geology Division began a large-scale Reconnaissance Mapping Program in 1972 to accelerate mapping of the Precambrian Shield at 1:125,000 scale, south of 58°N



latitude. Tom joined this program in 1973, mapping the Northwest Quarter of the Mudjatik Topographic sheet. He mapped the adjacent map sheet to the west the following year. The late Dr. John Lewry, another SGS Honour Roll recipient, of the University of Regina Geology Department was involved in both of these mapping projects. The synergy that developed between Tom and John together with the work of Bob Munday and Dave Pearson, who had mapped adjacent areas of the Mudjatik map sheet, resulted in ground-breaking developments in the understanding of the lithological and structural framework of the Saskatchewan Precambrian Shield. John and Tom co-authored a paper entitled, Variation in Lithology and Tectonometamorphic Relationships in the Precambrian Basement of Northern Saskatchewan published in 1977, in the Canadian Journal of Earth Sciences. They described the lithological, structural and metamorphic characteristics of large tracts of the shield, and introduced the Domainal classification scheme to the geology of northern Saskatchewan. When new information became available, additions and changes were made to the Domainal scheme; however, their paper became an industry and academic standard for discussing the regional geological setting in northern Saskatchewan. Even now, nearly 40 years later, it is still one of the most commonly cited papers in this regard.

Tom joined the Economic Geology Program in 1975, which was managed by Les Beck. That summer he carried out uranium exploration in the Mudjatik Domain and then in 1976 started a multi-year Uranium Metallogenic Study in the Rabbit Lake area. By this time, a number of uranium deposits had been and were being discovered at the margin of and within the Athabasca Basin, at or near the unconformity between the Athabasca sandstones and the underlying basement rocks. Tom's keen perception and interpretation of the geological and structural details that he mapped in the Rabbit Lake open-pit uranium mine and the surrounding vicinity, was augmented by the collaborative detailed mineralogical and geochemical analyses of alteration and mineralization assemblages, carried out by Jan Hoeve at the Saskatchewan Research Council. They co-authored the founding paper for the unconformity-type uranium deposit model, entitled, On the Genesis of Rabbit Lake and Other Unconformity-type Uranium Deposits in Northern Saskatchewan, Canada published in the December 1978 issue of Economic Geology. Tom co-authored a number of re-iterations of the model in the ensuing years; however, that initial paper also became the industry standard for many years to follow. It had an impact on how companies explored for these deposits. Again, when new information became available, the initial model was modified. However, the essential features were still there, and their paper, is one of the most commonly cited papers dealing with uranium deposits in and around the Athabasca Basin in northern Saskatchewan.

Tom was promoted to Head of the Economic Geology Division in 1977, and in 1986, he became Director of the Mineral Development Branch at Saskatchewan Energy and Mines, which he held until 1996. He was also Acting Director of the Mines Branch in 1993-94. Tom often visited his staff in the field. These visits were highly regarded by the geologists as he typically provided valuable insight into each project. Tom's managerial style, his fairness and humour were much appreciated by the Survey employees. They often commented, even years later that Tom was one of the best bosses they had ever worked for. Tom also enjoyed socializing with the staff and



it was a time of great camaraderie amongst staff and management.

Tom led numerous uranium deposit/geology field trips over the years and produced geology guide books for many of these trips. He was also a major contributor and organizer to the Nuclear Energy Agency – International Atomic Energy Agency (NEA/IAEA) Athabasca Basin Test Area Program which included a large part of the eastern Athabasca Basin. The NEA/IAEA program tested a wide variety of exploration techniques which could potentially aid in the future discoveries of more unconformity-type uranium deposits. The program culminated in the 1983 Geological Survey of Canada Paper 82-11, Uranium Exploration in Athabasca Basin, Saskatchewan, Canada.

Tom's increasing managerial responsibilities at the Survey between 1983 and 1996, meant there were fewer opportunities for field-based projects. However, he still managed to carry out significant uranium and gold deposit studies in the Beaverlodge area, notably around the old Box Gold Mine, as well as gold deposit studies and mapping in the Sulphide Lake area and base metal studies in the Hanson Lake area. Tom became the Director and Chief Geologist of the Northern Geological Survey in 1996, at Saskatchewan Energy and Mines. He held this position until May 1998, when he resigned from the Survey. Later that year Tom and Penny moved to Kimberley, BC, where they still reside. In the year following his departure from the Survey, Tom returned periodically to work in Saskatchewan as a petroleum well-site geologist.

During his 27-year career with the Survey, Tom mapped at scales ranging from the detailed deposit studies to 1:125,000 scale covering over 8100 square kilometres of the Saskatchewan shield. He authored or was a co-author of 120 papers, maps, abstracts, and geology guide books as well as co-editor of the 1985 CIM Special Volume on the Geology of Uranium Deposits. He was also a co-chair of various symposia technical programs for the Saskatchewan Geological Society and CIMM. Tom was a sessional lecturer in geology at the University of Regina in 1974. He was an external examiner, between 1990 and 1998, for a number of graduate students at the Universities of Saskatchewan, Regina, and Waterloo. Tom was an active member of the SGS during his years in Regina and at one time held the position of Secretary – Treasurer. He was also a member of APEGS. When asked what he considered to be a highlight of his career; Tom replied, "Coming to Saskatchewan".

There is, of course, much more to Tom than being a geologist. Family was a priority for him. Thus, it was not surprising that Penny and the boys visited Tom in the field most summers when he had active field projects. They also became avid cross-country and downhill skiers both here in Saskatchewan and on numerous trips to the Rockies. They eventually chose Kimberley, to invest in a ski-hill condo complex to which they made many trips. Tom also enjoyed gardening, having a good family dog, and the hunting opportunities that Saskatchewan provided. Once they moved permanently to Kimberley, Tom and Penny built their own home near the ski hill and have hosted numerous visits over the years from family and their friends made in Saskatchewan. They were also able to enjoy hiking in the mountains, kayaking and canoeing and spending time with their sons and their families, who reside in nearby mountain communities.



Tom's valued contributions to the geology of Saskatchewan and to the Survey are many and certainly most worthy and deserving of his induction to the Saskatchewan Geological Society's Honour Roll tonight. It is indeed an honour and a privilege to have been chosen to present this award to Tom. Compiled and written up for the Saskatchewan Geological Society Honour Roll Committee.

2017 Honour Roll Inductee: Mr. Milt Holter

This year's Honour Roll inductee is Mr. Milt Holter, whose work on the Prairie Evaporite and its potash beds is recorded in the definitive 1969 Saskatchewan Government Report 123 and maps. A detailed citation will be provided on the evening of the Annual General Meeting.

Respectfully submitted,

David MacDougall,
Honour Roll committee

Awards Committee Report - 2016 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. This year it is presented to **Jill Johnson** of the University of Saskatchewan for her poster entitled: "*Textural Relationships of the Ubiquitous Blue Quartz within Rocks Hosting the Arrow Zone, Athabasca Basin, Saskatchewan: Can Primary and Secondary Quartz Be Identified?*". Second place in this category went to **Aidan Mowat** of the University of Saskatchewan for her poster entitled: "*Trace Element Attenuation in Canadian Urban Streams: Investigation of Controlling Factors*". Aidan received a cheque for \$150. An Honourable Mention was also given by the judges to the group poster by Megan Binner, Corrie Davidson, Matthew Nadeau, Hoang Anh Tu Nguyen, Jordan Gashyna and Chi Pu (University of Saskatchewan), entitled, "*The Garner River Gold Exploration Project: From Idea to Reality*".

The **Lazlo Fuzesy Award** is presented to the best graduate student poster at the Saskatchewan Geological Open House. This year it is presented to **Meagan Gilbert** of the University of Saskatchewan for her poster entitled: "*Sedimentology and Stratigraphy of the Dinosaur Park Formation (Campanian) in Southwestern Saskatchewan, Canada*". Second place in this category went to **Dillon Johnstone** of the University of Regina for his poster titled: "*Lithostratigraphic and Structural Controls of Uranium Mineralization in the Kiggavik East Zone, Central Zone, and Main Zone Deposits and Their Potential Extensions to the Northeast*". Dillon received a cheque for \$150.

The judges for the 2016 poster competition were Dr. Joyce McBeth (University of Saskatchewan), Mr. Lynn Kelley (Government of SK), Mr. Murray Rogers (Government of SK) and an anonymous judge. The



judges are thanked for their contributions to the student poster awards.

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 **Kevin Hoover**.

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 **Colton Vessey**.

Respectfully submitted,

Murray Rogers,
Awards Committee Chair



9. NOMINATING COMMITTEE

The term of the 2016 SGS Executive ends with the AGM on February 4, 2017. The 2016 Executive puts forward the following candidates for the 2017 Executive:

President:	Monica Cliveti
Vice-President:	Erik Nickel
Treasurer:	Kate MacLachlan (year 1/2)
Secretary:	Omid Mahmoodi (year 2/2)
Business Manager:	Colin Card
Program Chair:	Mike Thomas
Assistant Program Chair:	Kim Kreis
Past President:	Ryan Morelli

A motion will be made at the AGM to accept the full slate of candidates for 2017.

Respectfully submitted,

Ryan Morelli
President

