



# SOCIETY OF ECONOMIC GEOLOGISTS, INC.

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## Student Chapter Annual Report Cover Page

Submission Deadline: September 30th

Submit to: studentprograms@segweb.org

Month/Year Reported: From 09/2022 (mm/yyyy) – To 06/2023 (mm/yyyy)

STUDENT CHAPTER:

Check if update needed at segweb.org

Name: University of Toronto

University Affiliation: University of Toronto

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Facebook: https://www.facebook.com/uoftseg/

Twitter: \_\_\_\_\_

Instagram: \_\_\_\_\_

LinkedIn: \_\_\_\_\_

YouTube: \_\_\_\_\_

Chapter Executive Committee (*in office during the time frame captured on this report*) (type "Vacant" if position not filled):  
The new committee is reported on the Student Chapter Membership Information form (SCMIF).

President:	<u>Tina Tsan</u> Name	<u>tina.tsan@mail.utoronto.ca</u> E-mail
VicePresident:	<u>Danielle McGill</u> Name	<u>danielle.mcgill@mail.utoronto.ca</u> E-mail
Secretary:	<u>Joyce Lu</u> Name	<u>joycethelovely.lu@mail.utoronto.ca</u> E-mail
Treasurer:	<u>Ozgur Can Tekin</u> Name	<u>Tekinozgurcan@gmail.com</u> E-mail

Chapter Academic Sponsor:  Check if SEG Fellowship in good standing

Daniel D. Gregory daniel.gregory@utoronto.ca  
Name E-mail Phone

22 Ursula Franklin Street, Toronto ON, M5S 3B1, Canada  
Address Fax

Chapter Industry Sponsor (*not affiliated with the student chapter's institution*):  Check if SEG Fellowship in good standing

James P. Siddorn jsiddorn@srk.com  
Name E-mail Phone

\_\_\_\_\_  
Address Fax

Sponsoring Institution or Company(name): SRK Consulting

## **SEG University of Toronto Student Chapter 2022-2023 Annual Report**

**Regular Meetings:** Every other Tuesday (September-December), every second Thursday of the month (January-April)

### **Activities:**

- Virtual talk titled “*VMS in the Field*” by Thomas Gemmel, Ontario Geological Survey (Feb 16, 2023)
- Volunteering at the SEG booth at PDAC (March 5 to 8, 2023)
- In-person talk titled “*Lithocap alteration, epithermal gold mineralization, and transition to the tops of porphyry deposits: Dogma vs Discovery*” by Jeffrey Hedenquist (March 30, 2023)
- Virtual Zoom short lecture on Yellowstone hydrothermal features by Jeffrey Hedenquist during pre-trip meeting (April 25, 2023)
- Western USA SEG Field Trip (May 15 to 23, 2023)
- Monthly email newsletter highlighting upcoming events, talks, opportunities relating to economic geology to our student members

### **Stewart R. Wallace Funding Breakdown**

See attached “*use\_of\_funding\_2023.pdf*” file for breakdown of our funding.

### **Western USA SEG Field Trip**

- Successful trip to Western USA (Utah, Idaho, Wyoming, Montana) from May 15 to 23, 2023; this was our chapter’s first international trip since 2018
- Western United States features prominent mining districts, world-class deposits and unique hydrothermal systems. As student geoscientists, many of us will likely pursue careers in new areas with active mining communities, such as the United States. The trip's main objective was to allow students to gain first-hand knowledge of these deposits and systems to aid their future industry careers.
- Attended by 5 graduate students, 4 undergraduates, 1 assistant professor from University of Toronto, 1 undergraduate from University of Las Vegas, Nevada, and 1 industry professional from Ivanhoe Electric
- Also attended by guest participants from University of Utah (1 emeritus professor, 1 undergraduate)
- Some highlights from the trip include:
  - Tintic Mining District outcrop tour led by Erich Petersen from University of Utah
    - Students got to learn about the geology of the area as well as observe how alteration due to magmatic-hydrothermal, geothermal and weathering has changed the rocks

- Osisko Development mine site tour (assay lab, core shack), and underground tour of the Trixie Mine (special thanks to Jessica Shaw and the team at Osisko Dev)
  - Amazing opportunity for our students to get first-hand knowledge and experience of how a real mine operates and all the different roles in industry (core loggers, underground mine geologists, drillers, etc)
- Yellowstone National Park to see hydrothermal features (Norris Geyser Basin, Canyon Village, Old Faithful, Grand Prismatic, etc)
- Black Butte SEDEX deposit and site tour led by Sandfire Resources America Inc (special thanks to Logan Bouley, Eric LeLacheur, Joel Dietrich, Kyle Nacey and Jerry Zieg)
  - In contrast to the fully operating mine we saw in Tintic, their project is at the development stage and it was a great opportunity for students to be able to see what the different stages of a mine is like
- Butte Mining District, where we got to visit Berkeley Pit (a former porphyry open-pit mine), the World Museum of Mining (learned about history of mining in Butte), and Mineral Museum at Montana Tech
- Full trip report can be read on the SEG website under our student chapter; can additionally be requested by emailing our chapter

#### **Future Activities:**

- SEG UofT student chapter elections to be held early September, 2023
- Plan fundraising events to raise money for future trips such as beer gardens. We hope to open the event to industry folks from local geology groups and students to help foster student-industry relationships, and hopefully generate more interest in trip sponsorships (whether that be through funding, or actual participation from industry people).
- Invite a SEG Traveling Lecturer to present to students, faculty and staff in our department. We also plan to open the event to the Toronto Geological Discussion Group (TGDG), a local geology group who has helped fund plenty of our trips in the past. This would be a great opportunity to not only expose students to research into economic geology but also a great student-industry networking experience.
- Plan another international trip; location is TBD by the next executive team
  - Could reach out to other SEG student chapters to promote cross-chapter interactions, and do a collaborative trip



## **SOCIETY OF ECONOMIC GEOLOGISTS**

STUDENT CHAPTER AT THE UNIVERSITY OF TORONTO

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### **Use of Funding 2022-2023**

#### **Funds Raised**

<b>Source</b>	<b>Amount (\$ CAD)</b>
Carry-over bank funds from previous years	-24.81
SEG Stewart R. Wallace Funds	1989.91
Toronto Geological Discussion Group (TGDG)	1,000.00
Department of Earth Sciences, University of Toronto	12,000.00
MDD-GAC Tom Lane Award	1,500.00
UofT participant fees (\$750/student)	6,700.00
Industry participant fee/industry sponsorship	2,500.00
Non-UofT participant fee	1,458.80
Anonymous mining executive individual sponsor	1,500.00
Funds from participant drop out (in exchange for flight credits)	980.25
<b>Total</b>	<b>29,604.15</b>

#### **May 2023 Western USA Trip**

See the attached spreadsheet for the budgeting of the trip (available funding, expected expenses and the actual expenses). With available funding, we had a total of \$29,604.15. We expected to use \$29,516.14 for accommodations, gas and vehicle rentals on the trip. A summary of the use of funding for the trip can be found on page 2. For the trip, we ended up spending a total of \$27,335.16, with \$2,268.99 leftover in the chapter account for future endeavors.

**Use of Funding Summary**

	<b>Amount (\$ CAD)</b>
Accommodations	6,287.57
Flights	14,395.13
Car rentals	4,002.82
Gas	783.08
Miscellaneous	1,866.57
<b>Total</b>	<b>27,335.16</b>

<b>Available Funding</b>		<b>Cost (CAD)</b>	<b>Notes</b>
Society of Economic Geology (SEG)		\$ 1,989.91	SEG Stewart R. Wallace funds (\$1500 USD)
Toronto Geological Discussion Group (TGDG)		\$ 1,000.00	Donation
Carry-over bank funds		\$ (24.81)	From previous years
Department of Earth Sciences, University of Toronto		\$ 12,000.00	
UofT Student participant fee		\$ 6,700.00	Participant fee for all UofT student participants (8) is \$750; one student in financial need will be paying a reduced cost of \$500; \$200 from deposits from students that dropped out of the trip
Industry participant fee		\$ 2,500.00	Sponsorship from Ivanhoe Electric (Caden Anderson)
MDD-GAC		\$ 1,500.00	Tom Lane Award; Reimbursed upon receipt of trip report
Non-UofT Student participant fee		\$ 1,458.80	Participant fees from students from other SEG chapters (Jennifer Ajouaud from UNLV)
Mining executive individual sponsor		\$ 1,500.00	Donation from an anonymous individual sponsor
Ozgur reimbursement for dropping out		\$ 980.25	Repayment of flight cost in exchange for cancelled flight credit
<b>TOTAL AVAILABLE FUNDING</b>		<b>\$ 29,604.15</b>	
<b>Expected Expenses</b>		<b>Cost (CAD)</b>	<b>Notes</b>
Accommodations		\$ 6,833.71	
Gas		\$ 1,750.00	
Vehicle rentals		\$ 4,380.84	
Flights		\$ 14,385.18	
Miscellaneous		\$ 2,166.41	
<b>TOTAL EXPECTED EXPENSES</b>		<b>\$ 29,516.14</b>	Leftover money to be used as buffer for emergencies, unexpected costs, and other miscellaneous expenses
	<b>EXPECTED NET</b>	<b>\$ 88.01</b>	
<b>Expenses Overview</b>		<b>Cost (CAD)</b>	<b>Notes</b>
Accommodations		\$ (6,287.57)	
Gas		\$ (783.08)	
Vehicle rentals		\$ (4,002.82)	
Flights		\$ (14,395.13)	
Miscellaneous		\$ (1,866.57)	
<b>TOTAL EXPENDITURE</b>		<b>\$ (27,335.16)</b>	
	<b>ACTUAL NET</b>	<b>\$ 2,268.99</b>	

DETAILED EXPENDITURE			
Date		Cost (CAD)	Notes
<b>Accommodations</b>			
3/17/2023	Faithful Street Inn deposit	\$ (1,372.98)	
3/26/2023	Faithful Street Inn full payment	\$ (1,351.66)	
5/15/2023	Hampton Inn	\$ (263.17)	\$188.52 USD
5/15/2023	Hampton Inn	\$ (261.62)	\$188.52 USD
5/15/2023	Hampton Inn	\$ (263.17)	
5/15/2023	Hampton Inn	\$ (263.17)	
5/16/2023	Microtel Inn & Suites	\$ (790.14)	\$279.91 USD @ 1.383373227 for 3 rooms \$268.56 USD @ 1.383378016 for 1 room <b>\$571.17 USD total</b>
5/23/2023	Homestake Lodge	\$ (1,721.66)	\$310.50USD @ 1.38505636 \$931.50USD @ 1.386580783 <b>\$1242.00 USD total</b>
	<b>Subtotal</b>	<b>\$ (6,287.57)</b>	
<b>Flights</b>			
3/23/2023	Uoft students airfare (12 students)	\$ (12,725.06)	YYZ -> SLC, BZN -> YYZ
3/26/2023	Dan's airfare	\$ (1,045.27)	YYZ -> SLC, BZN -> YYZ
3/30/2023	Airfare for Caden (Ivanhoe)	\$ (283.90)	Return flight from BZN -> SLC
4/19/2023	Airfare for Jenni (UNLV)	\$ (340.90)	Round trip NV -> SLC, BZN -> SLC
	<b>Subtotal</b>	<b>\$ (14,395.13)</b>	
<b>Car rentals</b>			
5/23/2023	Car rental	\$ (1,354.23)	
5/23/2023	Car rental	\$ (1,310.04)	
5/23/2023	Car rental	\$ (1,338.55)	
	<b>Subtotal</b>	<b>\$ (4,002.82)</b>	

Gas/car-related expenses		
5/16/2023	Maverik- Jennis car	\$ (50.93)
5/18/2023	Slim Olsons- Jennis car	\$ (54.55)
5/18/2023	Shell 14.561G @ \$4.1999/G	\$ (83.12)
5/18/2023	Firehole Fill 13.108G @ \$4.099/G	\$ (73.05)
5/18/2023	Brad's Exxon	\$ (61.98)
5/18/2023	Chevron	\$ (70.76)
5/18/2023	Walmart 9.197G @ \$3.559/G	\$ (44.50)
5/20/2023	Firehole Fill 4.713G @ \$3.799/G	\$ (24.34)
5/21/2023	Townsend 12.155G @ \$3.489/G	\$ (57.66)
5/21/2023	Townsend 13.699G @ \$3.489/G	\$ (65.09)
5/21/2023	Exxon	\$ (53.22)
5/22/2023	Car wash	\$ (13.60)
5/22/2023	Car wash	\$ (2.72)
5/22/2023	Car wash	\$ (13.60)
5/22/2023	Car wash	\$ (13.60)
5/22/2023	Car vacuuming	\$ (6.80)
5/23/2023	Holiday St 8.496G @ \$3.599/G	\$ (41.57)
5/23/2023	Holiday St	\$ (38.96)
5/23/2023	Holiday St 2.665G @ \$3.599/G	\$ (13.04)
	<b>Subtotal</b>	\$ (783.08)
Misc		
3/29/2023	Yellowstone Insight Tour	\$ (1,141.25)
5/5/2023	Vinyl Banner	\$ (47.44)
5/10/2023	Vinyl banner reprint	\$ (47.44)
5/18/2023	Antelope Island	\$ (20.39)
5/18/2023	Antelope Island	\$ (20.39)
5/18/2023	Antelope Island	\$ (20.39)

5/19/2023	Yellowstone National Park Annual Pass	\$ (110.93)	
5/19/2023	Yellowstone Insight tip	\$ (54.38)	
5/19/2023	Yellowstone Insight tip	\$ (13.60)	
5/22/2023	Berkeley Pit admission \$5/person	\$ (81.57)	
5/22/2023	World Museum of Mining \$25/person for underground tour	\$ (173.32)	
5/22/2023	World Museum of Mining \$12/person general admission	\$ (116.47)	
5/22/2023	Autozone Duct Tape	\$ (18.99)	
	<b>Subtotal</b>	\$ (1,866.57)	
	<b>TOTAL</b>	\$ (27,335.16)	