

2023 ANNUAL REPORT

Prepared by: The Board of Directors June 20, 2024

GeoscienceINFO
FUNDED BY APGO EDUCATION FOUNDATION



APGO
education
foundation

BRINGING GEOSCIENCE TO THE PUBLIC



Our mission is to advance education in Geoscience by:

- Promoting a greater understanding of geoscience through our educational research projects, our innovative website, GeoscienceINFO.com, our blog [Beneath Your Feet: A Geoscience Blog](#) and public events.
- Supporting students studying geoscience entering their final year of a B.Sc. degree program.
- Supporting internationally trained geoscientists to obtain their professional registration in Ontario.

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Charitable Registration Number 84604 5052 RR0001

Photos: (front cover) Kingston Waterfront Urban GeoWalk – Extensive limestone shore on Lake Ontario, (this page) Red shale rocks at Cheltenham Badlands, (back cover) Syenite outcrop lookout at Rock Dunder GeoHike, Lyndhurst.

Highlights

2023 was a very busy year with major field programs in the summer and release of a number of new virtual field trips:

- **Donations** of \$251,052 received in 2023
- **Published new GeoHike on the Niagara Gorge** downstream of the famous Horseshoe Falls at Niagara Falls showcasing the beautiful stratigraphy.
- **Released the McMaster Rock Garden Urban GeoWalk** that takes you through the lovely gardens on McMaster University campus and describes the geological significance of the decorative rocks.
- **Expanded the downtown Toronto Urban GeoWalk** from Union Station to the Royal Ontario Museum in partnership with the University of Toronto.
- **Published 15 articles** on our blog “Beneath Your Feet: A Geoscience Blog” with an additional 5 posts on career reflections and history of geoscience.
- **Displayed “Fossils of the Kingston Area”** at the annual Kingston Science Rendezvous with partner Mining Matters including displays of fossils, interactive Play-Doh fossil impressions for kids and geologically-themed prize packs; more than 1,300 people visited our booth.
- Delivered, along with partners Mining Matters and Carleton University, **a full-day special session of talks on geoscience education and a full-day teacher’s workshop** at the GAC-MAC 2023 conference in Sudbury.
- **Developed a Laurentian Campus Urban GeoWalk** with Dr. David Pearson to further enhance teacher learning about geological sites of interest in Sudbury.
- **Hosted a booth** with partner Mining Matters at the Bancroft Rockhound Gemboree with geologically themed painting activity for kids 1-12 and pendant-making for kids 12-18; more than 1,000 people visited our booth.
- **Showcased our GeoHikes** at the Ottawa Lapsmith and Mineral Club Mineral Show discussing local geology and led kids with geology-themed activities.
- Attended with Mining Matters, **the Ontario Association of Geographic and Environmental Education** (OAGEE) Fall Conference at York University in Toronto which stimulated considerable interest in our GeoHikes and Urban GeoWalks and how they can be incorporated into curriculum learning.
- **Sponsored the Geoscientist-in-Residence program** in Pukaskwa National Park in partnership with the Canadian Federation of Earth Sciences and Parks Canada.
- **Received a major matching grant** from Mitacs Accelerate with partner McMaster University to expand GeoHikes on the Niagara Geopark and the Bruce Trail.
- **Received a major grant** with partner University of Toronto from the Canadian Geological Foundation to expand Urban GeoWalks in Toronto.

Photo: Shatter cones at Laurentian University campus, Sudbury, from Laurentian Urban GeoWalk.



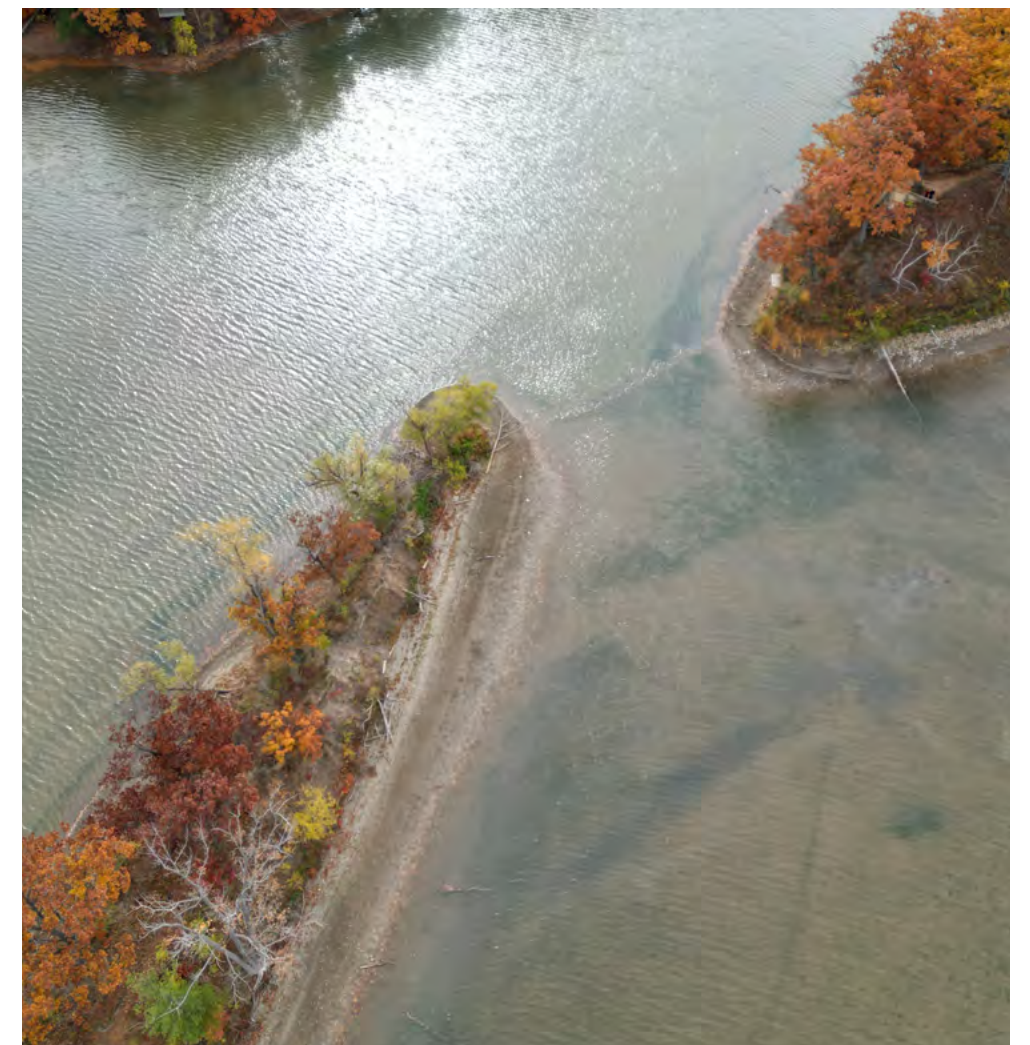
Major Activities In 2023



Two New GeoHikes Released in Southwest Ontario

The APGO Education Foundation (APGOEF) is excited to have released two new GeoHikes on [GeoscienceINFO.com](https://www.GeoscienceINFO.com) in 2023, the Niagara Gorge GeoHike and the Cootes GeoHike. These virtual tours are located in southwestern Ontario and take visitors on a walking tour to learn about geological spots of interest along the way. The Niagara Gorge GeoHike, located just downstream of the famous Horseshoe Falls at Niagara Falls, showcases the beautiful stratigraphy exposed along the Niagara River and is a key location to understand the geological history of the area. The Cootes GeoHike showcases the geological significance of the Chegwin Trail, which is now closed due to remediation efforts.

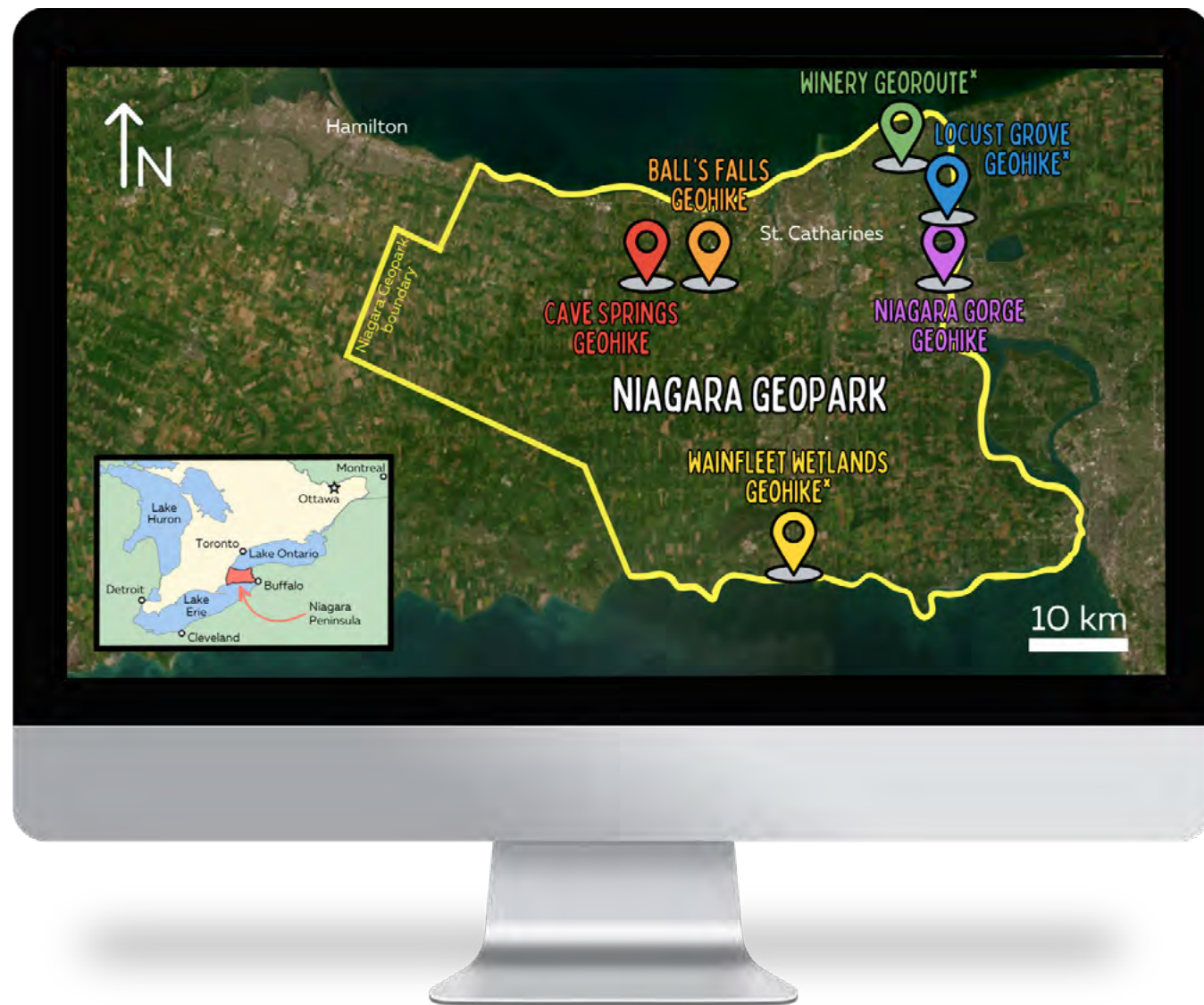
Photo: (left) Niagara Gorge, (bottom) Cootes Paradise.



In our continuing effort to make geology accessible in cities, we have released two new Urban GeoWalks in 2023, the McMaster Rock Garden Urban GeoWalk and the Downtown Toronto Urban GeoWalk. The McMaster Rock Garden Urban GeoWalk developed in partnership with McMaster University takes you through the lovely gardens on McMaster University campus, describing the geological significance of the decorative rocks. The Downtown Toronto Urban GeoWalk developed in partnership with University of Toronto begins at Union Station in downtown Toronto and takes you on a walk to the Royal Ontario Museum, describing various buildings and the materials used in their construction along the way.

*Photos: (right) McMaster Rock Garden
(bottom) Downtown Toronto Urban GeoWalk,
looking at Union Station in this photo*





Niagara Geopark

APGOEF is proud to be a Geoscience Education Partner for the Niagara Geopark, which is working in partnership with local communities, tourism businesses, educational institutions, conservation organisations and government agencies across the Niagara Region to have the Niagara Peninsula designated as a UNESCO Global Geopark.

The Niagara Geopark represents a vibrant and passionate region-wide effort to manage and protect Niagara's geoheritage while simultaneously developing well-managed tourism experiences that improve local livelihoods. The organization is currently in the process of evolving into a Canadian Federal Charitable Organisation with sustainable tourism development and education as its primary purpose.

UNESCO Global Geoparks are non-regulatory entities that recognise places with unique geology, landscapes, history, and culture and are managed with a focus on education, conservation, sustainable tourism, and community engagement.

APGOEF developed the first GeoHikes at Ball's Falls and Cave Springs in the Geopark in 2022. An expanded field program was carried out at key geological sites in the Geopark in 2023 including Wainfleet, a key fossil location, Short Hills, an important area for glacial features and the Winery GeoRoute highlighting the importance of geology and its impact on growing of grapes known as "terroir". The new GeoHikes and Wine GeoRoute will be released in fall 2024.

Photo: Map showing location of Niagara Geopark and location of key GeoHikes and GeoRoute being developed by APGOEF



"I wanted to say thank you for prize package. The kids were thrilled. They each got their own stuffy, which were so cool and unique and they loved the rock specimens and identification tools. The posters have been mounted on the walls and the kids are excited about all the learning materials."

Thank you for providing the educational experience at Science Rendezvous and with the prize pack. The kids are ready to rockhound and collect pebbles at the beach this summer that they can identify!"

Prize pack recipient at
Science Rendezvous Kingston 2023



PDAC 2023

The Prospectors & Developers Association of Canada (PDAC) held its annual convention in March 2023 and the APGO Education Foundation (APGOEF) attended for its 6th consecutive in-person year. The convention was a huge success, attracting over 23,800 delegates from around the world. The Foundation showcased newly released Urban GeoWalks and GeoHikes at the Mining Matters booth, located in the South Building, just outside the Trade Show doors.

Science Rendezvous Kingston 2023

The APGOEF along with geoscience education partner Mining Matters hosted a booth at Science Rendezvous Kingston 2023 on May 13 at the (formerly) Leon's Centre. The event drew in over 5,300 visitors who were looking to engage in scientific learning. Our booth, hosted by Deana Schwarz, Veronica Klassen, and Lesley Hymers (Mining Matters), had more than 1,300 meaningful interactions with the public. Our theme this year was "Fossils of the Kingston Area" and we enthusiastically engaged in discussions and activities with everyone who stopped by. We had an interactive activity to teach young children about trace fossils. Here, children could push fossils into Play-Doh and see the impressions they left behind. We had a large piece of preserved Paleozoic seafloor (hash plate) and we invited visitors to search for small fossils preserved within it using a hand lens. We also had a magnificent display of local and representative fossils of the area, many of which were provided to us from southwestern Ontario fossil expert Bob O'Donnell. Visitors could also enter a ballot to win one of three amazing geologically-themed prize packs. This event was, as always, a delight to deliver and one we look forward to each year.

Photos: (top) The APGOEF booth at PDAC 2023 (middle) Veronica Klassen at the APGO Education Foundation Booth at Science Rendezvous Kingston 2023. (bottom) The APGO Education Foundation Booth at Science Rendezvous Kingston 2023.

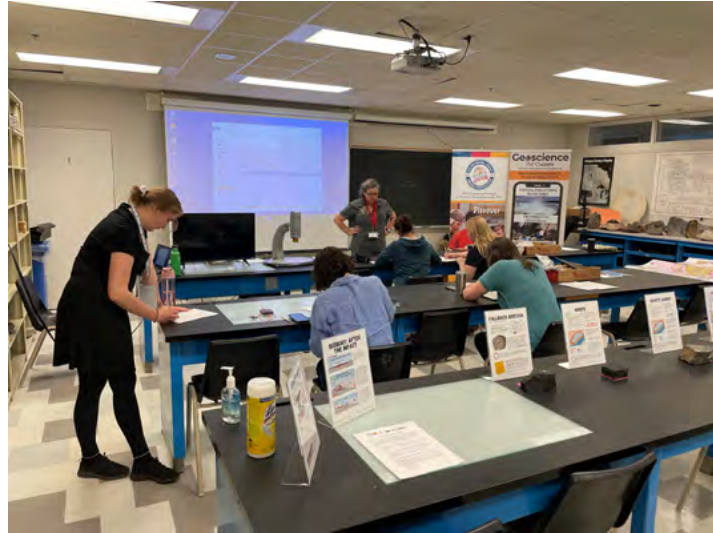


Photo: Veronica Klassen of APGOEF and Beth McLarty-Halfkenny of Carleton University leading educators in geoscience learning at the GAC MAC 2023 Educators workshop in Sudbury.

GAC MAC 2023

The APGOEF, along with our partners at Mining Matters and Carleton University delivered a full-day special session of talks on geoscience education, and a full-day teacher's workshop at the Geological Association of Canada – Mineralogical Association of Canada (GAC MAC) 2023 conference, held May 23-29. The teacher's workshop hosted educators from across the province and used a hands-on approach to deliver new approaches in teaching geosciences in the classroom. The Laurentian Campus Urban GeoHike was developed to further enhance teacher learning about geological sites of interest.



Photos: (left) Deana Schwarz and Lesley Hymers at the APGO Education Foundation and Mining Matters booth at the Bancroft Rockhound Gemboree 2023, (right) Pegmatite outcrop at Beryl Pit, Bancroft.

Bancroft Rockhound Gemboree

The APGOEF hosted a booth at the Bancroft Rockhound Gemboree August 3-6, 2023, along with partners at Mining Matters. Our theme this year was "Mineral Pigments" and we discussed how minerals can be used to make pigment to colour things such as paints. In order to facilitate these learning points, we offered a painting activity for children aged 1-12. Here, we used five paint colours that have been known to be made using minerals

from the Bancroft area: black (tourmaline), red (hematite), blue (sodalite), green (amazonite), and purple (fluorite). For youths aged 12-18 years old, we offered a pendant-making activity using popular Ontario minerals: amethyst, sodalite, and calcite. We had a great time re-connecting with regular visitors and getting to know new people at the Gemboree and had the honour of interacting with some 1,000 people at our booth!



Photos: (left) Deana Schwarz at the APGO Education Foundation booth at the OLMC Mineral Show 2023 in Ottawa, (right) Extinct green algae *Receptaculites* in Tindall Limestone, Ottawa City Hall in Ottawa Urban GeoWalk.

Ottawa Lapsmith and Mineral Club Mineral Show

On September 16 and 17, the APGOEF and Mining Matters hosted a booth at the Ottawa Lapsmith and Mineral Club (OLMC) Mineral Show at the Nepean Sportsplex in Ottawa. Over 600 people visited the booth, where we discussed local geology and led kids in geology-themed activities.



Photos (left): The APGO Education Foundation and Mining Matters booth at the OAGEE Fall Conference 2023, (right) Whirlpool Sandstone with prominent cross bedding, Old City Hall, Toronto Urban GeoWalk.

OAGEE Fall Conference

The APGOEF, along with Mining Matters, attended the Ontario Association of Geographic and Environmental Education (OAGEE) Fall Conference on October 13, 2023, at York University. This conference attracts geographic and environmental educators from across the province and resulted in many meaningful conversations about geoscience. There was much interest surrounding GeoHikes and Urban GeoWalks, and how they can be incorporated into curriculum learning.

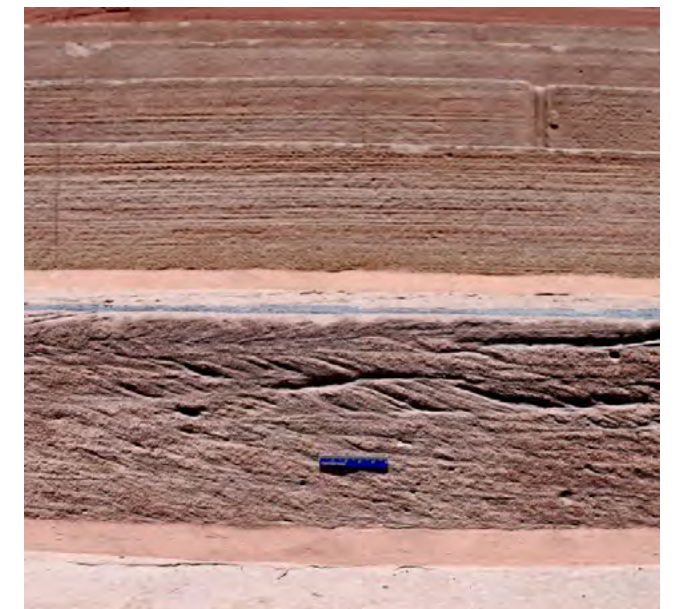




Photo: Looking out towards the Mississauga sandstone on the shore of Ramsey Lake at the Vale Living With Lakes Centre, Sudbury.

Geoscientist in Residence Program

The APGOEF was the major sponsor for the Geoscientist in Residence program, which is delivered annually in August in partnership with the Canadian Federation of Earth Sciences and Parks Canada. Dr. Joanna Hodge, an expert in Canadian Shield geology was selected from an elite list of applicants to spend two weeks in Pukaskwa National Park where she educated the public and staff about local geology.



Scholarships and Bursaries

The 2023 scholarship recipients, each of whom received a \$5,000 scholarship, were::

- APGO Education Foundation Scholarship**
 - Paige Pilote**, Laurentian University
- Robert Hodder Memorial Scholarship**
 - Jacklyn Kruger**, Laurentian University

APGOEF works closely with Professional Geoscientists Ontario (PGO) and the Professional Access Into Employment (PAIE) program operated by the Toronto and Region Conservation Authority to support internationally trained geoscientists through our bursary program to obtain their professional registration in Ontario.

Donations and Grants

The Foundation continued to raise funds to support public education, scholarships and bursaries with overall donations and grants in 2023 totaling **\$251,052**. Under the PGO Support Agreement, PGO made an annual donation of \$5,000 to support scholarships and bursaries. In addition, PGO members, who are provided the option to donate to the Foundation on their annual membership renewal, showed continuing strong support in 2023 with \$6,359 donated which was matched by a generous donor. The Foundation is also grateful to PGO for continuing to provide office support.

Photo: Famous limestone-conglomerate-quartzite outcrop in Kingston showing two important unconformities.

Outlook for 2024

Public Education

Public Education continues to be a major area of activity for us, and we are working across Ontario to educate the public about the importance of geoscience. Our major continuing public education projects right now are:

- 1. GeoHikes on the Bruce Trail on the Niagara Escarpment – 7 GeoHikes have already been released and more are planned in 2024
- 2. Wine GeoRoute in the Niagara Wine Region with partner McMaster University
- 3. Geoscience Education partner for the proposed Niagara Geopark seeking the Global Geopark designation from UNESCO. See www.niagarageopark.com
- 4. GeoHikes and GeoRoutes on key geologically significant areas in the proposed Niagara Geopark
- 5. Urban GeoWalks – downtown Toronto – GeoWalks in the green areas of downtown Toronto and GeoHikes in the Kingston area with partner Queen’s University
- 6. Urban GeoWalks in green areas of downtown Toronto with partner University of Toronto and GeoHikes in the Kingston area with partner Queen’s University
- 7. Upgrading and expansion of GeoRoutes in northern Ontario with partner Laurentian University

All GeoHikes and Urban GeoWalks are done in ESRI StoryMaps™ and use all the latest technology including 360 photos, drone images, 3D LiDAR imagery and digital split screens to bring the public knowledge of the exciting geological and environmental history in a fun and informative way. These GeoHikes allow people who are unable to visit in person, the ability to experience the geology through a rich virtual experience.

We expect to have a robust field season in Summer 2024 working with the McMaster University School of Earth, Environment & Society to expand GeoHikes along the Bruce Trail. Further expansion of the Toronto Urban GeoWalks with University of Toronto is planned to incorporate natural areas in Toronto to show the full range of geology and the environment. Additional GeoHikes will be added in the Kingston and Ottawa areas working with partners Queen’s University and Carleton University/University of Ottawa. Upgrading and expansion of GeoRoutes in northern Ontario to build from our successful GAC-MAC conference in Sudbury in 2022 are also planned for 2024.

The Foundation is working with the Niagara Geopark to develop more GeoHikes and GeoRoutes in the proposed Geopark. A Wine GeoRoute is being developed in the famous wine region of the Niagara Escarpment to highlight the key geological and environmental features of the terroir along the Escarpment that makes it an ideal area for growing grapes for wine production. We are pleased to continue to support the fine work of Niagara Geopark Board as they proceed on their application to be recognized as a UNESCO Global Geopark.

Photo: Geological pothole in boulder along Niagara Gorge GeoHike.



Beneath Your Feet: A Geoscience Blog

In 2023 we published 15 articles on our blog, “Beneath Your Feet: A Geoscience Blog.” Of those articles, 7 were written by guest authors and 8 were written by staff at APGOEF. Most of the blogs were general interest blogs published under the Geoscience Today category. Additionally, we published 2 posts specific to career experiences and 3 posts about the history of geoscience. Our most popular blog posts in 2023 were, “Pirates and Geo-ethical Privateers,” “The Niagara Gorge GeoHike,” and “Crawford Lake: The Golden Spike of the Anthropocene.” We advertised our blog on our social media accounts, garnering attention on both Facebook and LinkedIn. We look forward to continuing to improve and adapt the blog to suit our audience’s needs in 2024.



Public Events

Each year we reach out to the public through a series of public events. Our public events have two main objectives: to facilitate geoscience learning through hands-on, theme-oriented activities, and; to have meaningful conversations to learn how people perceive geoscience and what they are looking for in terms of learning. Our 2024 public events schedule is as follows.

- **PDAC Convention** In March 2024, we will return to the Convention Centre with Mining Matters, to showcase our virtual tours to delegates. Our table will be located just outside the Trade Show floor in the south building.
- **Science Rendezvous Kingston** We will return to Kingston for their award-winning Science Rendezvous event at Slush Puppie Place in May 2024. We will be highlighting the geology in the city of Kingston through a series of activities. Our booth will include a Paleozoic Sea photo booth, a hands-on trace fossil learning station using Play-Doh, challenges to find small fossils in hash plates, and a beautiful display of fossils from the Kingston area. We will also be promoting our new citizen science project called “Geology in the City: Kingston”, where the public will be encouraged to submit sites of geological relevance in Kingston on an interactive map.
- **Bancroft Rockhound Gemboree** We will be returning to the Bancroft Rockhound Gemboree in August 2024 with Mining Matters to host a geoscience education booth. This four-day event brings in rock and mineral enthusiasts from all over Canada and the world and we are excited to lead kids and youth in hands-on learning activities that promote geoscience learning.
- **OLMC Gem and Mineral Show** For the third year in a row, we will be returning with Mining Matters to the Ottawa Lapsmith & Mineral Club Gem & Mineral Show at the Nepean Sportsplex in September 2024. We will lead kids through hands-on activities to encourage geoscience learning.
- **OAGEE Fall Conference** We intend to return to the 2024 Ontario Association of Geographic and Environmental Education (OAGEE) Fall Conference in October 2024. Here, we will again discuss geoscience education needs with geography and geoscience educators across the province.

Our Mission

The APGO Education Foundation (“APGOEF”) is a registered charitable organization under the Canada Not-for-profit Corporations Act, registration number 84604 5052 RR0001.

The purpose of the charity is to advance the education of the public in the area of geoscience by:

- Holding lectures, presentations, and conferences on geoscience both in person and virtually to introduce geoscience to high school and university students as well as enhance the knowledge of the general public.
- Providing scholarships to post-secondary students for the study of geoscience in the final year of a Bachelor of Science (B.Sc.) degree program.
- Providing bursaries to immigrants to Canada who are internationally trained geoscientists and have demonstrated financial need for completion of licensure procedures for registration as professional geoscientists (P.Geo.s) in Ontario.

The Foundation provides funding to support innovative geoscience education projects working with university geoscience departments, community groups and not-for-profit organizations across Ontario. Please see our website at www.apgoedfoundation.ca

GeoscienceINFO.com is an innovative one-stop website for the public for information about the Earth beneath their feet developed by APGOEF. Our website provides interesting information on all facets of geoscience. A particularly exciting feature of GeoscienceINFO.com is the highlighting of virtual field trips and GeoHikes in different areas in Ontario. This enables viewers to experience and learn about the geology of an area while traversing it digitally in ESRI ArcGIS Online™ and StoryMaps™. Information on the latest discoveries and news in the world of geoscience is featured on the website, on our blog [Beneath Your Feet: A Geoscience Blog](#), as well as on our social media.

Photo: Gneiss outcrop at Arrowhead Beach GeoHike.



Board of Directors

DR. BILL PEARSON, P.GEO., FGC
Chair

Dr. Bill Pearson has over 50 years of experience in the national and international mining industry and has carried out exploration and development programs in 18 countries around the world. He has held senior positions in a number of public junior mining companies and has served on several boards. He was the founding President of the Association of Professional Geoscientists of Ontario (APGO) from 2000-2003. In 2009 he received the Canadian Professional Geoscientist Award for his outstanding public leadership of geoscience in Ontario and Canada, and for raising recognition of the contribution of his profession to society and 2015 he received the PDAC Distinguished Service Award for his service to Canada's Mineral and Exploration Industry. He is the Founder of APGOEF and has provided much of the funding to launch and grow the charity. Currently he is Executive Vice President, Exploration of Eoro Resources Limited exploring a major silver-tin polymetallic discovery in southern Bolivia.

DR. NEIL WESTOLL, P.GEO., FGC, FCIM
Secretary & Treasurer

Dr. Neil Westoll is widely experienced in mineral exploration and business development internationally, having spent over 50 years with senior and junior Canadian and international mining companies in exploration and business development and as an independent consultant to the mining industry. Since 2001, he has focused on the environmental and consultation aspects of the mining business. He was appointed to the Council of the APGO in 2000, and served from its inception to June 2006, and was Treasurer of the APGO until that time.

KRISTIN HANSON, M.SC., P.GEO., FGC

Kristin Hanson is a hydrogeologist with 30 years of experience in the environmental and engineering consulting business, where she developed technical expertise in contaminated site assessment and remediation. Kristin is a retired executive, having most recently held the role of Senior Vice President – Infrastructure Engineering, Central Canada at SNC-Lavalin. Kristin focuses on combining technical skills and people skills to solve problems and

communicate complex technical concepts using simple language. Valuable experience was gained through her eight years of volunteer work on APGO Council, including serving as Council President in 2011-2012.

DR. CAROLYN EYLES, P.GEO.

Dr. Eyles is a Professor in the School of Interdisciplinary Science and the School of Earth, Environment & Society at McMaster University in Hamilton, Ontario. She holds a B.Sc. in Environmental Sciences from the University of East Anglia, a postgraduate certificate of Education from the University of Newcastle upon Tyne, and an M.Sc. and Ph.D. in geology from the University of Toronto. Her research interests lie in the fields of glacial sedimentology and environmental geology, and she has worked extensively in Alaska, Australia, Brazil, Iceland, Norway, Great Britain and Canada. She has over 75 publications in peer-reviewed journals and books and has co-authored two first year geoscience textbooks. Dr. Eyles is a 3M National Teaching Fellow and has won numerous teaching awards including an OCUFA Teaching Award, an Ontario Undergraduate Student Alliance Teaching Award, and the McMaster President's Award for Excellence in Instruction. In 2022, Dr. Eyles received the Award of Merit from Professional Geoscientists Ontario (PGO) recognizing her major contributions to professional geoscience.

ANDREA WALDIE, P.GEO., FGC

Andrea Waldie, P.Geo., former Business Manager of the Foundation, joined the Board of Directors on January 1, 2022. Andrea is currently the CEO of Geoscientists Canada, the national umbrella organization of the self-regulatory bodies licensing professional geoscientists in Canada, also Treasurer of the Global Geoscience Professionalism Group, and lead coordinator of the national Promoting Geoscience Group. Prior to joining Geoscientists Canada, Andrea spent over 20 years in the mineral exploration and mining industry. She served as the Executive Director & Registrar of the Association of Professional Geoscientists of Ontario (APGO), now Professional Geoscientists Ontario (PGO), from 2007 to 2013. From 2008 through 2021, she served as the volunteer Business Manager of the APGO Education Foundation. Andrea holds a B.Sc. in Earth Sciences from the University of Waterloo

and is a registered professional geoscientist (P.Geo.) in Ontario and British Columbia. She is a strong proponent of communicating the importance and wonders of geoscience to the public; promoting and supporting geoscience professionalism; and fostering diversity, equity, and inclusion in the profession.

ADVISOR TO THE BOARD

DR. NANCY E. MCINERNEY-LACOMBE, DM, MBA, BA (HONS)

Dr. Nancy E. McInerney-Lacombe is a senior executive with close to 30 years of domestic and international experience in the financial sector.

Nancy's career has spanned three distinct areas including: Senior Vice President, Royal Bank of Canada; Director, Office of the Superintendent of Financial Institutions, Federal Government of Canada; and Financial Sector Specialist in East Africa for The World Bank Group. Nancy also performed an Executive in Residence (EIR) role at the Richard Ivey School of Business from 2005 to 2014. She returned to Ivey as an EIR in 2016. She also served as a Board member and Chair of the Advancement Committee, Rosseau Lake College, Muskoka, Ontario from 2013 to 2015. Previous public board experience includes Chair of the Audit Committee of Desert Sun Mining Corporation prior to its takeover by Yamana Gold Corp. in 2006.

Management Team

DR. DEANA SCHWARZ, P.GEO.

Manager Geoscienceinfo.com

Dr. Deana Schwarz, P.Geo., received a B.Sc. in biology and a B.Sc. in geology. She received her M.Sc. and Ph.D. in stable isotope geochemistry at the University of Western Ontario, where she focused on the relationship between living systems and their environment throughout the geologic past. Dr. Schwarz has developed a deep sense of responsibility in educating others about geoscience, a sentiment strengthened by her years of teaching to university and college students. She is working hard to continue to make geoscience more accessible to the public, both on-line and in the field. In 2021, she led the successful transition of the GeoscienceINFO virtual field trips to the ESRI ArcGIS™ system. In addition, she has developed a number of StoryMaps™ that have become a key platform to presenting GeoHikes to the public.

BERNARD KRADJIAN,

Director Marketing & Communications

Bernard Kradjian has over 13 years of solid experience in communications and marketing including website and social media development. As a consultant, he has developed and branded

websites and social media accounts for a number of public and private sector organizations. He has produced and edited videos and has extensive experience on YouTube. Since 2008, he has been the communications manager for PGO and is responsible for their popular “Field Notes” that is distributed to more than 3000 people each week. In addition, he develops PGO presentations, writes and edits reports, including the Annual Report, and designs promotional items for tradeshow and the Annual General Meeting. In 2021 Bernard carried out the conversion of the GeoscienceINFO.com website into WordPress which greatly enhanced the development capabilities of the site.

VERONICA KLASSEN

Manager Geoscience Blog

Ms. Veronica Klassen joined the APGOEF Team in June 2021 to develop and manage our new blog, Beneath Your Feet: A Geoscience Blog, which was launched on January 11, 2022. Ms. Klassen holds an M.Sc. in Science Communication at Laurentian University, and a Bachelor of Arts and Science degree from McMaster University. She is passionate about making geoscience accessible and engaging for the public.

Donors

The APGO Education Foundation is deeply grateful to its Founding Sponsors and all of its donors for their generous support.

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- William Pearson Family Fund

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- Bill Pearson

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- William Pearson Family Fund

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- Keira Hum
- Dr. Katie Maloney, P.Geo.
- Julia Nielsen
- Dr. Elli Papangelakis
- Dr. Alex Peace, P.Geo.
- Kate Pearson
- Eric Pettipiece
- Shania Ramharrack-Maharaj
- Dr. Deana Schwarz, P.Geo.

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- Keira Hum
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- Julia Nielsen
- Dr. Elli Papangelakis
- Dr. Alex Peace, P.Geo.
- Kate Pearson
- Eric Pettipiece
- Shania Ramharrack-Maharaj
- Dr. Deana Schwarz, P.Geo.

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- Dr. Alex Peace, P.Geo.
- Kate Pearson
- Eric Pettipiece
- Shania Ramharrack-Maharaj
- Dr. Deana Schwarz, P.Geo.

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- Julia Nielsen
- Dr. Elli Papangelakis
- Dr. Alex Peace, P.Geo.
- Kate Pearson
- Eric Pettipiece
- Shania Ramharrack-Maharaj
- Dr. Deana Schwarz, P.Geo.

We would like to thank the generosity of all our donors and supporters that have made this year very successful and have allowed us to move strongly forward on the Foundation's purpose to advance the education of the public in the area of geoscience.

Photo: Stunning contrast between older basalt (left cliff) and the rounded, younger diabase dike (right cliff) at Pukaskwa GeoRoute.

DOWNTOWN TORONTO URBAN GEOWALK CONTRIBUTORS

- Dr. Charly Bank
- Dr. Heidi Daxberger
- Dr. Carolyn Eyles, P.Geo.
- Karyn Gorra
- Dr. Daniel Gregory
- Andreia Hamid
- Lingfei Liu
- Dr. Katie Maloney, P.Geo.
- Dr. Tasca Santimano
- Dr. Deana Schwarz, P.Geo.

MCMASTER ROCK GARDEN URBAN GEOWALK CONTRIBUTORS

- Allie Ellis
- Dr. Carolyn Eyles, P.Geo.
- Serena Formenti
- Joe Hansen
- Keira Hum
- Dr. Rebecca Lee
- Dr. Katie Maloney, P.Geo.
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SUPPORTERS

Gold (>\$5000)

- Canadian Geological Foundation
- William Norman Pearson
- Pearson Geological Limited
- Professional Geoscientists Ontario

INDIVIDUALS

Platinum (>\$500)

- Laurent Coulibaly
- Dennis Leroy German
- Kristin Hanson
- Alexandra Horwood

Gold (\$100 to \$499)

- Anonymous
 - Gabriel Arseneau
 - Peter Battersby Duckworth
- Allan Douglas MacTavish
 - William Henry Stiebel
 - Dennis Howson
- Waddington
 - Neil David Stanley Westoll
 - Stephen Wilson
- Rimant Victor Zalnieriunas

Silver (\$20 to \$99)

- Rifaat Abdalla
 - Walid Abomriga
 - Alafun,Victoria Agiobu
 - Delwar Ahmed
 - Steven Alcock
 - Mamdouh Aldaw
 - Scott William Allison
 - Francisco Amaya
 - Michael Angelopoulos
 - Bronwyn Azar
 - Stephen Balch
 - James Barker
 - Elaine Basa
 - Warren Ross George Bates
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 - Jean-Pierre Francois
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 - Vince J. Gerrie
 - Philip Geusebroek
 - Oshin Gharabegian
 - James Gibson
 - John Gilliatt
- Carl Ginn
 - Richard Ginn
 - David Good
 - Richard Ross Greenly
 - Bujing Guan
 - David Leslie Guindon
 - Katherine Hahn
 - Christopher J. Hale
 - Evan Hastie
 - Janet Elizabeth Haynes-Graham
 - Robert Blake Hearst
 - Mary-Anne Hildebrandt
 - Sarah Hirschorn
 - Anthony Hobbs
 - Monique Hobbs
 - Joanna Hodge
 - Sean Horan
 - Lloyd Alvin Howell
 - Robert Hrabí
 - Blake Hylands
 - Maureen Carol Jensen
 - Eric Anthony Kallio
 - Krystal Kant
 - John Keating

Silver (\$20 to \$99) con't

- Christopher Kelly
 - Craig Samuel Kelly
 - Benjamin Kempel
 - Karen Ruth Kettles
 - Aftab Khan
 - Venkata Kopalle
 - Aimee Langlais
 - Sharon Lau
 - Kevin W. Leonard
 - Deo Limbu
 - Chengyu Liu
 - Stephen John Livingstone
 - Anthony Richard Lotimer
 - Kenzie Anthony MacNeil
 - William Olver Mackasey
 - Gordon Mackay
 - Laura Mancini
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 - Jeanette Marcotte
 - Carlos Martinez Pelletier
 - Gregory Matheson
 - Lindsay McClenaghan
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 - Joaquin Merino-Marquez
 - Marilen Miguel
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 - Bruce Andrew Miller
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 - Richard William Keith Morrison
 - Jeff Muir
 - Ahmad Mumin
 - Richard Paul Murphy
 - Gabriela Murray
 - Greta Marlene Najcler
 - Patti Yukiko Nakai-Lajoie
 - Pizye Nankamba
 - Richard J.E. Niels
 - Ronald George Ormson
 - Andrew William Panko
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 - Henrik Thalenhorst
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 - Robert Tossell
 - Nathan Tribble
 - William Robert Troup
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 - Guido Venturini
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 - Elizabeth Walsh
 - Philip Richard Walsh
 - Charles Bailey Walters
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 - Ryan Waram
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 - Marion Werniuk
 - Joanna West
 - Gerald Dewar White
 - William Willis
 - Roger Michael Woeller
 - Norbert Michael Woerns
 - Heather Wolczanski
 - Abdul Yassine
 - Mehrdad Zarei Joorshari
 - Youqin Zhou

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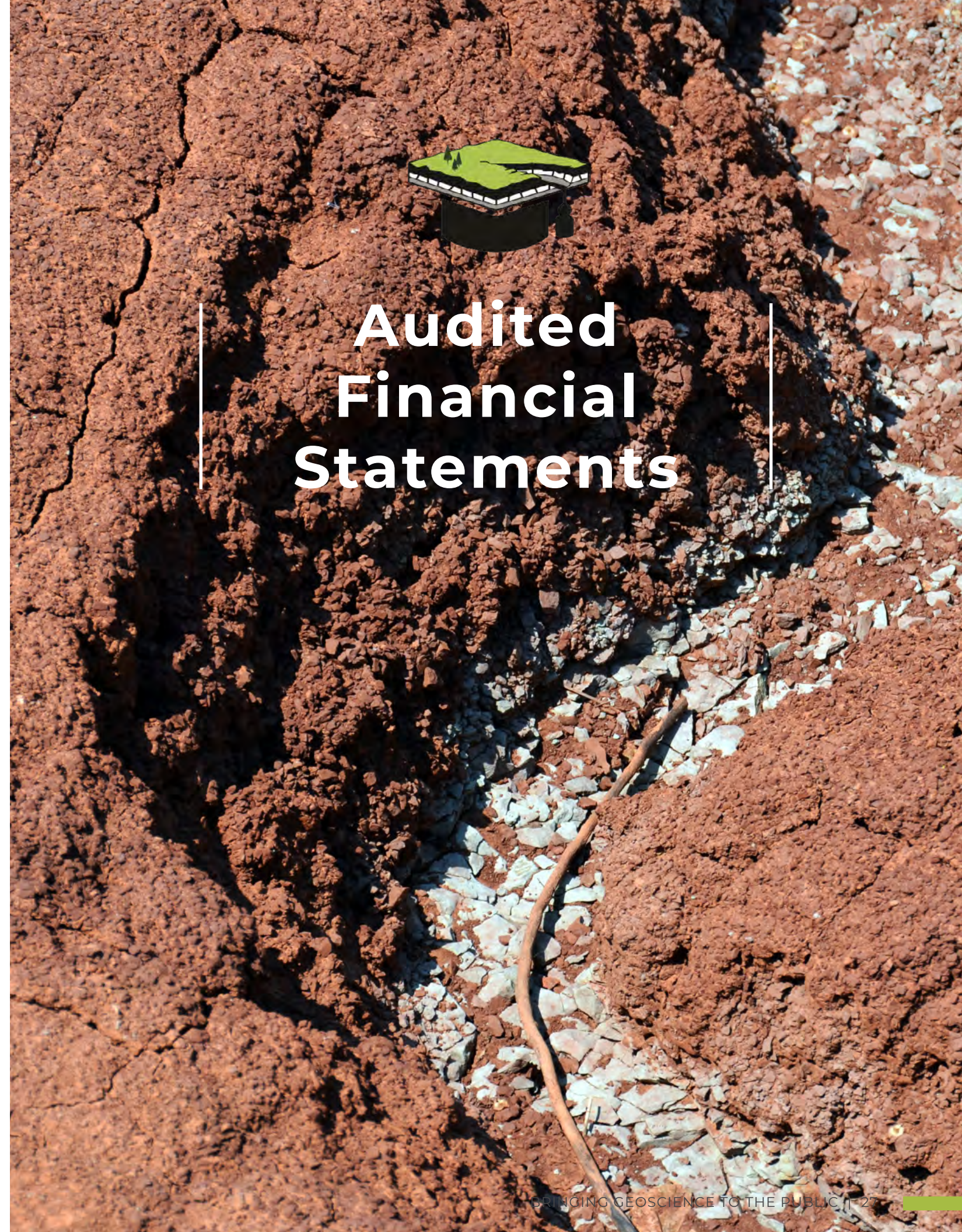


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Photos: (above) Copper nickel sulphide outcrop beside railroad tracks in Sudbury, Ontario. (right) Red shale at the Cheltenham Badlands GeoHike, showing a small gully formed by erosional processes.

Audited Financial Statements



APGO EDUCATION FOUNDATION
Financial Statements
Year Ended December 31, 2023

APGO EDUCATION FOUNDATION
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Year Ended December 31, 2023

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INDEPENDENT AUDITOR'S REPORT

To the Members of APGO Education Foundation

Opinion

We have audited the financial statements of APGO Education Foundation (the organization), which comprise the statement of financial position as at December 31, 2023, and the statements of revenues and expenditures, changes in net assets and cash flows for the year then ended, and notes to the financial statements, including a summary of significant accounting policies.

In our opinion, the accompanying financial statements present fairly, in all material respects, the financial position of the organization as at December 31, 2023, and the results of its operations and cash flows for the year then ended in accordance with Canadian accounting standards for not-for-profit organizations (ASNPO)

Basis for Opinion

We conducted our audit in accordance with Canadian generally accepted auditing standards. Our responsibilities under those standards are further described in the Auditor's Responsibilities for the Audit of the Financial Statements section of our report. We are independent of the organization in accordance with ethical requirements that are relevant to our audit of the financial statements in Canada, and we have fulfilled our other ethical responsibilities in accordance with these requirements. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our opinion.

Responsibilities of Management and Those Charged with Governance for the Financial Statements

Management is responsible for the preparation and fair presentation of the financial statements in accordance with ASNPO, and for such internal control as management determines is necessary to enable the preparation of financial statements that are free from material misstatement, whether due to fraud or error.

In preparing the financial statements, management is responsible for assessing the organization's ability to continue as a going concern, disclosing, as applicable, matters related to going concern and using the going concern basis of accounting unless management either intends to liquidate the organization or to cease operations, or has no realistic alternative but to do so.

Those charged with governance are responsible for overseeing the organization's financial reporting process.

Auditor's Responsibilities for the Audit of the Financial Statements

Our objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes our opinion. Reasonable assurance is a high level of assurance, but is not a guarantee that an audit conducted in accordance with Canadian generally accepted auditing standards will always detect a material misstatement when it exists. Misstatements can arise from fraud or error and are considered material if, individually or in the aggregate, they could reasonably be expected to influence the economic decisions of users taken on the basis of these financial statements.

(continues)

Independent Auditor's Report to the Members of APGO Education Foundation (continued)

As part of an audit in accordance with Canadian generally accepted auditing standards, we exercise professional judgment and maintain professional skepticism throughout the audit. We also:

- Identify and assess the risks of material misstatement of the financial statements, whether due to fraud or error, design and perform audit procedures responsive to those risks, and obtain audit evidence that is sufficient and appropriate to provide a basis for our opinion. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control.
- Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the organization's internal control.
- Evaluate the appropriateness of accounting policies used and the reasonableness of accounting estimates and related disclosures made by management.
- Conclude on the appropriateness of management's use of the going concern basis of accounting and, based on the audit evidence obtained, whether a material uncertainty exists related to events or conditions that may cast significant doubt on the organization's ability to continue as a going concern. If we conclude that a material uncertainty exists, we are required to draw attention in our auditor's report to the related disclosures in the financial statements or, if such disclosures are inadequate, to modify our opinion. Our conclusions are based on the audit evidence obtained up to the date of our auditor's report. However, future events or conditions may cause the organization to cease to continue as a going concern.
- Evaluate the overall presentation, structure and content of the financial statements, including the disclosures, and whether the financial statements represent the underlying transactions and events in a manner that achieves fair presentation.

We communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit and significant audit findings, including any significant deficiencies in internal control that we identify during our audit.



CHARTERED PROFESSIONAL ACCOUNTANTS
Licensed Public Accountants

Mississauga, ON
June 28, 2024

APGO EDUCATION FOUNDATION
Statement of Financial Position
December 31, 2023

	2023	2022
ASSETS		
CURRENT		
Cash	\$ 18,264	\$ 12,754
Marketable securities <i>(Note 2)</i>	232,433	344,630
Accounts receivable	5,000	-
Harmonized sales tax recoverable	33,208	20,187
Prepaid expenses	566	556
TOTAL ASSETS	\$ 289,471	\$ 378,127
LIABILITIES AND NET ASSETS		
CURRENT		
Accounts payable and accrued liabilities	\$ 16,364	\$ 13,130
NET ASSETS	273,107	364,997
LIABILITIES AND NET ASSETS	\$ 289,471	\$ 378,127
ON BEHALF OF THE BOARD		
_____ <i>Director</i>		
_____ <i>Director</i>		

The accompanying notes are an integral part of the financial statements

APGO EDUCATION FOUNDATION
Statement of Revenues and Expenditures
Year Ended December 31, 2023

	General Fund <i>December 31</i> 2023	Public Education Fund <i>December 31</i> 2023	Scholastic Fund <i>December 31</i> 2023	Endowment Fund <i>December 31</i> 2023	2023 <i>December 31</i> 2023	2022 <i>December 31</i> 2022
REVENUES	\$ 241,052	\$ -	\$ 5,000	\$ 5,000	\$ 251,052	\$ 253,576
EXPENSES						
Public education	-	169,068	-	-	169,068	126,353
General and administrative	38,831	-	-	-	38,831	20,321
Public Events	10,794	-	-	-	10,794	8,772
Accounting and audit fees	15,611	-	-	-	15,611	14,448
Website	13,188	-	-	-	13,188	11,267
Scholarships and bursaries	-	-	10,000	-	10,000	11,500
Insurance	2,253	-	-	-	2,253	2,107
Software and internet	1,694	-	-	-	1,694	1,524
Office expense	1,463	-	-	-	1,463	-
Interest and bank charges	45	-	-	-	45	48
Salaries and wages	-	-	-	-	-	25,648
	83,879	169,068	10,000	-	262,947	221,988
EXCESS (DEFICIENCY) OF REVENUES OVER EXPENSES FROM OPERATIONS	157,173	(169,068)	(5,000)	5,000	(11,895)	31,588
OTHER INCOME (EXPENSES)						
Gain on sale of marketable securities	6,534	-	-	-	6,534	5,043
Investment income	5,657	-	-	-	5,657	2,260
	-	-	-	-	-	54
Investment fees	(3,323)	-	-	-	(3,323)	(3,542)
Unrealized gain (loss) on marketable securities	(88,863)	-	-	-	(88,863)	(16,182)
	(79,995)	-	-	-	(79,995)	(12,367)
EXCESS (DEFICIENCY) OF REVENUES OVER EXPENSES	\$ 77,178	\$ (169,068)	\$ (5,000)	\$ 5,000	\$ (91,890)	\$ 19,221

Included in Public Education is salaries

The accompanying notes are an integral part of the financial statements

<div> <div>APGO EDUCATION FOUNDATION</div> <div>Statement of Changes in Net Assets</div> <div>Year Ended December 31, 2023</div> </div>						
	General Fund (Note 4)	Public Education Fund	Scholastic Fund (Note 3)	Endowment Fund	Total 2023	Total 2022
NET ASSETS - BEGINNING OF YEAR	\$ 109,307	\$ -	\$ 33,900	\$ 221,790	\$ 364,997	\$ 345,776
Excess (deficiency) of revenues over expenses	77,178	(169,068)	(5,000)	5,000	(91,890)	19,221
Expense	-	-	-	-	-	-
General fund contributions to other fund categories	(169,068)	169,068	-	-	-	-
NET ASSETS - END OF YEAR	\$ 17,417	\$ -	\$ 28,900	\$ 226,790	\$ 273,107	\$ 364,997

<div> <div>APGO EDUCATION FOUNDATION</div> <div>Statement of Cash Flows</div> <div>Year Ended December 31, 2023</div> </div>		
	2023	2022
OPERATING ACTIVITIES		
Excess (deficiency) of revenues over expenses	\$ (91,890)	\$ 19,221
Items not affecting cash:		
Contributed from fund balance	(5,000)	-
Gain on disposal of investments	(4,471)	(5,043)
Unrealized (gain) loss on investments	88,863	16,182
	(12,498)	30,360
Changes in non-cash working capital:		
Accounts receivable	(5,000)	-
Harmonized sales tax recoverable	(13,021)	(8,590)
Prepaid expenses	(10)	(119)
Accounts payable and accrued liabilities	3,232	(943)
	(14,799)	(9,652)
Cash flow from (used by) operating activities	(27,297)	20,708
INVESTING ACTIVITIES		
Purchase of marketable securities	(29,492)	(62,680)
Proceeds on disposal of marketable securities and return of capital	62,299	37,301
Cash flow from (used by) investing activities	32,807	(25,379)
INCREASE (DECREASE) IN CASH FLOW	5,510	(4,671)
Cash - beginning of year	12,754	17,425
CASH - END OF YEAR	\$ 18,264	\$ 12,754

DESCRIPTION OF ACTIVITIES

APGO Education Foundation (the "Foundation" or "APGOEF") is incorporated under the Canada Corporations Act as corporation without share capital. It is a registered charity under the Income Tax Act (Canada) and as such is not subject to income tax.

The Foundation's objective is to provide financial and other support to promote a greater understanding of geoscience, support the individuals who study geoscience, and support the practice of geoscience.

The purpose of the charity is to advance the education of the public in the area of geoscience by:

1. Holding lectures, presentations and conferences on geoscience both in person and virtually to introduce geoscience to high school and university students, as well as enhance the knowledge of the general public;
2. Providing scholarships or post-secondary students for the study of geoscience in the final year of a Bachelor of Science (B.SC.) degree program
3. Providing bursaries to immigrants to Canada who are internationally-trained Geoscientists and have demonstrated financial need for completion of licensure procedures for registration as professional Geoscientists (P.Geo.s) in Ontario.

APGOEF provides funding to support innovative geoscience education projects working with university geoscience departments, community groups and not-for-profit organizations across Ontario.

1. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

The financial statements were prepared in accordance with Canadian accounting standards for not-for-profit organizations (ASNFPO). Canadian accounting standards for not-for-profit organizations are part of Canadian GAAP.. The fund uses the Restricted Fund Method.

The restricted fund method of accounting involves the reporting of details of financial statement elements by fund in such a way that the organization reports total general funds, one or more restricted funds, and endowment funds.

Revenue recognition

APGO Education Foundation follows the fund accounting method of accounting for contributions, which includes donations and grants.

The General Fund recognizes all unrestricted revenue and restricted contributions for which no corresponding restricted fund is presented. Unrestricted contributions are recognized as revenue when received or receivable if the amount to be received can be reasonably estimated and collection is reasonably assured. General fund restricted contributions are recognized when the related expenses have been incurred under the terms of the restriction. Unrestricted investment income is recognized as revenue when earned.

Restricted fund contributions are recognized as revenue in the year in which they are received.

Endowment funds contributions are recognized as revenue to the fund, as well as investment income subject to the conditions that stipulate it be added to the principal amount of the fund.

(continues)

1. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES (continued)

Contributed services

Contributed materials and services are recognized only when a fair value can be reasonably estimated, the materials and services are used in the normal course of operations and the materials and services would otherwise have been purchased.

Financial instruments

(a) Measurement of financial instruments

The Foundation initially measures its financial assets and financial liabilities at fair value. It subsequently measures all its financial assets and financial liabilities at amortized cost, except for investments in equity instruments that are quoted in an active market, which are measured at fair value. Changes in fair value are recognized in net income.

Financial assets measured at amortized cost include cash.

Financial liabilities measured at amortized cost include accounts payable and accrued liabilities.

Financial assets measured at fair value include marketable securities.

Measurement uncertainty

The preparation of financial statements in conformity with Canadian accounting standards for not-for-profit organizations requires management to make estimates and assumptions that affect the reported amount of assets and liabilities, disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of revenues and expenses during the period. Such estimates are periodically reviewed and any adjustments necessary are reported in earnings in the period in which they become known.

Financial statement items subject to such estimates and assumption include the valuation of accounts payable and accrued liabilities. Actual results could differ from these estimates.

2. MARKETABLE SECURITIES

	2023	2023	2022	2022
	Cost	Market value	Cost	Market value
General Fund marketable securities	\$ 52,076	\$ 59,620	\$ 102,813	\$ 113,270
Endowment Fund marketable securities	246,625	172,813	219,222	231,360
	-	-	-	-
	\$ 298,701	\$ 232,433	\$ 322,035	\$ 344,630

APGO EDUCATION FOUNDATION
Notes to Financial Statements
Year Ended December 31, 2023

3. SCHOLASTIC FUND

The Scholastic Fund is comprised of specific bursaries and scholarships as listed below:

	2023	2022
Past Presidents Bursary	\$ 21,300	\$ 26,300
Arsalan Mohajer Bursary Fund	5,000	5,000
Dr. Robert Hodder Scholarship	2,600	2,600
	<u>\$ 28,900</u>	<u>\$ 33,900</u>

4. GENERAL FUND

The general fund is used to pay for operating expenses including legal, audit, marketing and administration costs.

5. RESTRICTED FUNDS

Restricted funds are used to designate donations received for specific purposes. The Foundation has restricted funds for five designated purposes: Past Presidents Bursary, the Arsalan Mohajer Bursary Fund, Public Education, the Dr. Robert Hodder Scholarship and the William Pearson Endowment Fund. All funds are externally restricted.

6. COMMITMENTS

Professional Geoscientists of Ontario ("PGO") agreed in 2018 to provide an annual \$5,000 donation to the Past President's Bursary. This agreement was renewed in November 2022 for another year.

7. SALARIES AND WAGES

During the year, at least 60% of salaries and wages expenditures were directed to developing public geoscience information, which is shared at www.geoscienceinfo.com, and attendance at public events. A full schedule of public events was attended in 2023.

8. GRANTS

During the year the Foundation received a number of grants from the William Pearson Family Fund through Giftfunds Canada to be used for the general fund. All amounts designated to the general fund have been recognized as revenue during the year.

9. CONTRIBUTED SERVICES

The Foundation has a service agreement with the Professional Geoscientists of Ontario ("PGO") in which PGO provides office support services, hosting of the website, and the management of the PGO registrant's optional donations to the APGO Education Foundation during the PGO annual membership renewal.

Additional contributed services from other sources have not been recognized in the financial statements as the fair value of such services can not be reasonably estimated.

APGO EDUCATION FOUNDATION
Notes to Financial Statements
Year Ended December 31, 2023

10. FINANCIAL INSTRUMENTS

The Foundation is exposed to various risks through its financial instruments and has a comprehensive risk management framework to monitor, evaluate and manage these risks. The following analysis provides information about the Foundation's risk exposure and concentration as of December 31, 2023.

(a) Liquidity risk

Liquidity risk is the risk that the Foundation will encounter difficulty in meeting obligations associated with financial liabilities. The Foundation is exposed to this risk mainly in respect of its accounts payable and accrued liabilities. The Foundation expects to meet these obligations as they come due by generating sufficient cash flow from operations. There has been no change to this risk exposure from 2022.

(b) Market risk

Market risk is the risk that the fair value or future cash flows of a financial instrument will fluctuate because of changes in market prices. Market risk comprises three types of risk: currency rate risk, interest rate risk and other price risk. The organization is mainly exposed to other price risk. There has been no change to this risk exposure from 2022.

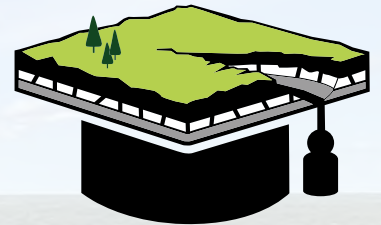
(c) Other price risk

Other price risk is the risk that the fair value or future cash flows of a financial instrument will fluctuate because of changes in market prices (other than those arising from interest rate risk or currency risk), whether those changes are caused by factors specific to the individual financial instrument or its issuer, or factors affecting all similar financial instruments traded in the market. The organization is exposed to other price risk through its investment in mutual funds. This risk is reduced to a minimum, since the Foundation mitigates the risk by investing in conservative investments focused on generating income with long term capital appreciation. There has been no change to this risk exposure from 2022.

Unless otherwise noted, it is management's opinion that the Organization is not exposed to significant other price risks arising from these financial instruments.

11. COMPARATIVE FIGURES

Some comparative figures have been restated to reflect current year allocations.



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foundation

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