

GeoscienceINFO
FUNDED BY APGO EDUCATION FOUNDATION

ANNUAL REPORT

2022

Prepared by: The Board of Directors June 30, 2023



APGO
education
foundation

BRINGING GEOSCIENCE TO THE PUBLIC



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Our mission is to provide financial and other support to:

- Promote a greater public understanding of geoscience
- Support the individuals who study geoscience
- Support the practice of professional geoscience

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Charitable Registration Number 84604 5052 RR0001

*Photos: (front cover) Coral fossils at Hungry Hollow south pit
(this page) Upper Falls at Ball's Falls Geotrail.
(back cover) Kettle at Kettle Point, along Lake Huron.*

Highlights

With resumption of field work and utilizing our upgraded software systems, much was accomplished in 2022:

- **Donations** of \$253,576 received in 2022
- **First series of Geotrails on the Bruce Trail released** in partnership with McMaster University and the Bruce Trail Conservancy in the Hamilton and Niagara Region
- **First ever Urban Geotrail developed** in partnership with the University of Toronto on the downtown campus
- **Launched a new blog** called Beneath Your Feet: A Geoscience Blog with 31 articles published in 2022
- **Displayed “Rocks of the Kingston Area”** at the annual Kingston Science Rendezvous with partner Mining Matters and were voted “Best Booth in Show” by the attendees
- **Exhibited at the Bancroft Rockhound Gemboree** with hands-on activities for kids; more than 1,000 people visited our booth
- **Showcased our developing Geotrails** at the Ottawa Lapsmith and Mineral Club Mineral Show generating strong interest for Geotrails on the Rideau Trail
- As the Geoscience Education Partner for the Niagara Peninsula Aspiring Global Geopark, **developed the first Geotrails in the proposed Geopark at Ball’s Falls and Cave Springs** and supported their application process to be recognized as a UNESCO Global Geopark.

Photo: Meandering stream in Sulphur Spring Conservation Area, Dundas, showing areas of deposition (Point Bar and Mid-channel Bar) and erosion (Cutbank).



Major Activities In 2022



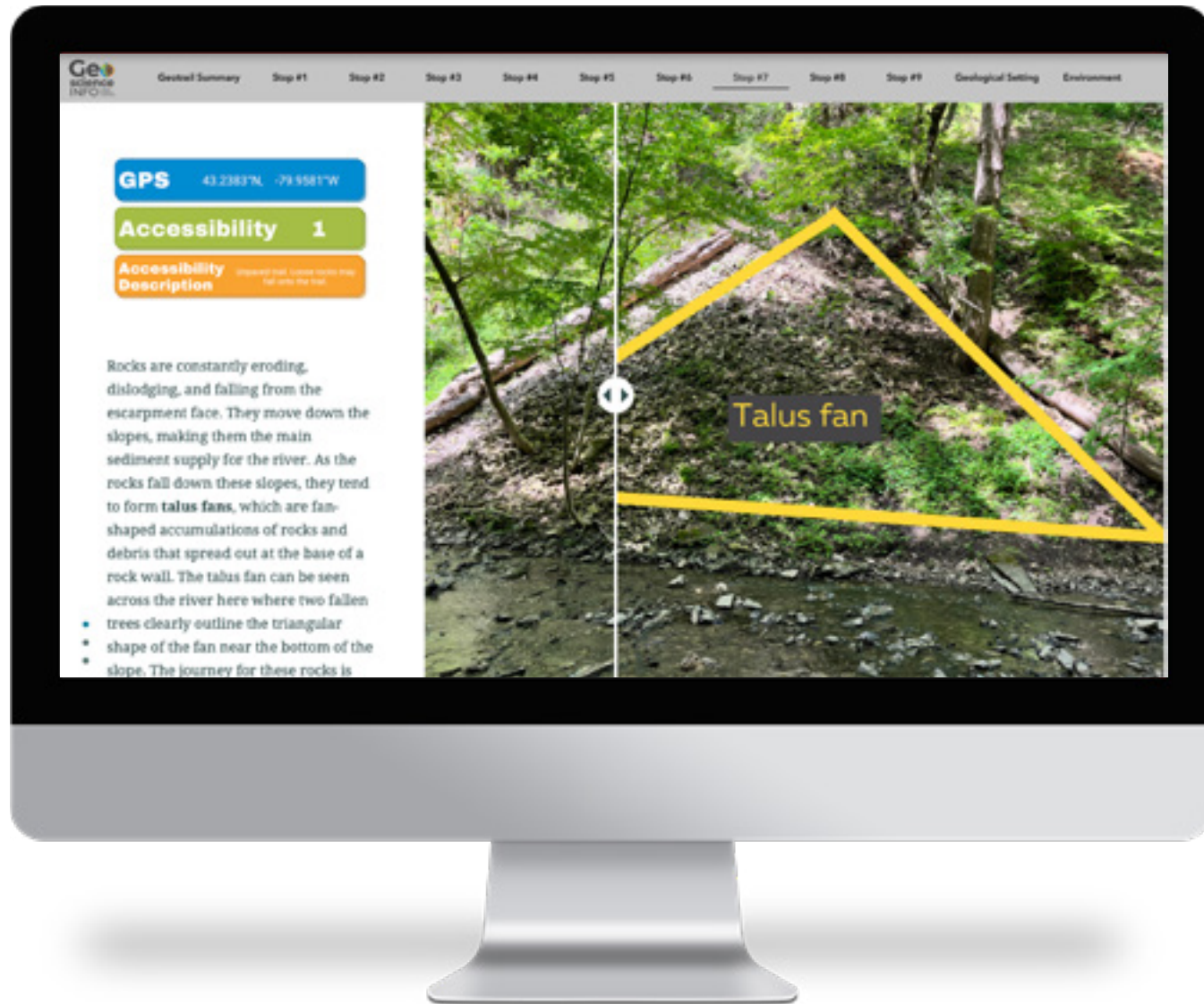
First Series of Geotrails Released In The Hamilton and Niagara Region

The APGO Education Foundation, along with partners at McMaster University and the Bruce Trail Conservancy, released a series of five of our first ever Geotrails. This work was supported by a grant from Mitacs.

Led by Dr. Carolyn Eyles, Dr. Alexander Peace, Dr. Katie Maloney and a team of students at McMaster University, five walkable hiking tours were developed at Ball's Falls, Tiffany Falls, Chedoke Radial Trail, Sulphur Falls, and Cave Springs, all located in the Hamilton and Niagara peninsula region in Ontario.

Geotrails allow users to hike a relatively short distance along seasoned trails within 1 to 3 hours and learn about the geology that presents itself along the way. Using their cell phone, users may stop at our GPS-based stops, read about the significant geology there, compare what they are looking at to photos provided on the website, then move on to the next stop.

Photo: Tiffany Falls showing our slide bar feature. The photo on the left is unlabelled, showing the entire photo and the photo on the right identifies all the rock units.



Alternatively, our Geotrails are designed to be accessible, allowing users to experience the hike from the comforts of their home or classroom. When possible, stops include photos, 360-degree interactive images, 3D LiDAR providing flawless detail of outcrops, slide bars to compare images, educational figures, and animations. We will be releasing more Geotrails in southern Ontario in 2023, and will be expanding across Ontario, including three Geotrails set to be released in the Ottawa area in late summer 2023.

Photos: (top) Dolostone outcrops on both sides of the trail at Chedoke Radial Geotrail. (bottom) Interactive 3D LiDAR model of a fossiliferous limestone outcrop on the Chedoke Radial Trail Geotrail.



Urban Geotrails

In continuing our efforts to make geoscience accessible to all, we are bringing interactive geoscience education into the big city! In 2022, we released our first ever Urban Geotrail, located on the University of Toronto campus. This work was supported by a grant from the [Canadian Geological Foundation](#).

Similar to Geotrails, Urban Geotrails take users on a 1-to-3-hour hike that includes a series of stops that have geoscientific relevance. Urban Geotrails, however, are located in an urban setting, focusing largely on building materials, architectural styles, sculptures, and garden ornamentation.

The University of Toronto Campus Urban Geotrail takes users to 8 buildings on campus and describes the geological significance of their building materials. Users may decide to visit stops in person, using their mobile device, or to experience these tours at home or in the classroom. Enhanced features such as 360-degree interactive images, 3D LiDAR models, slide bars, and animations provide an immersive tour experience.

We will be releasing more Urban Geotrails in southern Ontario in 2023 and will expand to other locations in Ontario such as Sudbury and Ottawa.

Photos: (top) Weathered sandstone with crossbeds on building block on the Legislature Building on the University of Toronto Campus Urban Geotrail. (left) Convocation Hall, on the University of Toronto campus Urban Geotrail. (right) Ornamental details on entrance to University College on the University of Toronto Campus Urban Geotrail.





Photo: Students sitting in dolostone cave at Cave Springs Geotrail.

Niagara Peninsula Aspiring Global Geopark

The Foundation is proud to be the Geoscience Education Partner for the Niagara Peninsula Aspiring Global Geopark (NPAGG).

In 2022, we developed the first Geotrails at Ball's Falls and Cave Springs in the proposed Geopark. NPAGG is a Non-Profit Organisation 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.

Together NPAGG 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.

NPAGG is advancing its application to be recognized as a Global Geopark and the Foundation is playing a key role as Geoscience Education Partner.



Beneath Your Feet: A Geoscience Blog

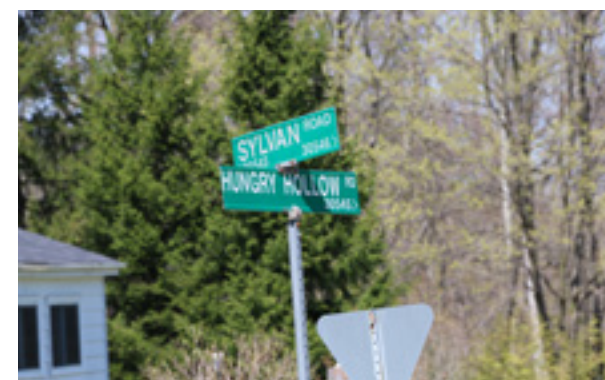
On January 11, 2022, the APGO Education Foundation launched a new blog called Beneath Your Feet: A Geoscience Blog, on [GeoscienceINFO.com](https://www.geoscienceinfo.com).

In 2022, we published 31 articles. Our blog is intended to bring a diverse array of geoscientific topics to the public's attention in an enjoyable and interesting format. Subjects range from the geological significance of curling stones to the crumbling walls of the Niagara Escarpment, all written by a wide range of experienced geoscientists and by Foundation staff.

We will continue to publish geoscience-related blog articles during 2023.



Photo: Derek Leung and his curling stones; author of the curling stones blog article in Beneath Your Feet: A Geoscience Blog.



Release of the Enhanced Arkona Virtual Field Trip

In January 2022, the APGO Education Foundation released our first ever Story Map Virtual Field Trip, of the Arkona area in southwestern Ontario. This enhanced Story Map was debuted to registered delegates and teachers at the 2021 GAC MAC conference the previous year with very positive reception. Its release to the public in early 2022 ensures that the geological history of the famous Arkona area is accessible to everyone.

The Arkona Story Map provides in-depth information about the geological history and paleoenvironment of the area using accessible formats such as static photos, 360-degree photos, videos, drone footage, slide bars, and high-quality animations.



Photos: (top) Red shale outcrop at Kettle Point. (bottom) Limestone outcrop containing fossils at Hungry Hollow.

Photos: (top-left) Rock Glen Waterfall in Arkona. (top-right) Rugose coral fossil at Hungry Hollow quarry. (centre-left) Hungry Hollow road sign at Hungry Hollow quarry. (bottom) Kettle in shale outcrop at Kettle Point.



Discussing local Kingston geology at the APGO Education Foundation and Mining Matter booth at Science Rendezvous 2022.

Kingston Science Rendezvous

On May 7, 2022, the APGO Education Foundation along with our partners at Mining Matters attended a booth at Canada's nation-wide science education event, Science Rendezvous, in Kingston, Ontario. Our theme was "Rocks of the Kingston Area" and our booth had a beautiful and labelled display of rocks from the Kingston area that were loaned to us by the Miller Museum at Queen's University.

We encouraged visitors to the booth to touch the samples and fielded many brilliant questions.

We released an online scavenger hunt for event attendees to participate in and win one of three prizes. This scavenger hunt included rocks on Queen's University campus and at Confederation Park along Kingston's waterfront. Participants were required to visit a minimum of six rocks and photograph them, then submit them online.

In total, we welcomed 976 people to our booth, providing us with a full-day's worth of wonderful Kingston-related geology discussions.



Deana Schwarz at the APGO Education Foundation Booth at PDAC 2022.

PDAC 2022

The APGO Education Foundation attended PDAC 2022 in June, returning to the show after its in-person cancellation in 2021.

Together with our partners at Mining Matters we showcased our newly released University of Toronto Urban Geotrail and our new online platform at the Mining Matters booth, located just outside the Trade Show floor in the south building. We were excited to be back in person interacting with the geoscientific community!

Bancroft Rockhound Gemboree

Along with our partners at Mining Matters, the APGO Education Foundation hosted a booth again at the 2022 Bancroft Rockhound Gemboree, July 28–31.

We introduced a brand-new concept to our booth this year in order to engage both adults and kids in hands-on activities aimed at providing a fun learning experience based on a specific geoscientific theme. Our theme in 2022 was the rocks and minerals in the Bancroft area.

We had a hands-on display of rock samples from Bancroft, on loan from the OGS. We also had two activities aimed at local youth. The first was a frame-making craft using small rock and mineral samples from Bancroft. Kids decorated frames using these rocks and minerals, while having fun conversations about what they are and how they formed. We also had a pendant-making activity using Ontario's official mineral, amethyst, aimed at 12–18 year-olds at the Gemboree. We discussed how amethyst forms and where it is found.



The APGO Education Foundation and Mining Matters booth at the Bancroft Rockhound Gemboree in July 2022.

In total, we had 1,055 visitors to our booth during this 4-day show, 275 of which were children. We are excited to be a source of scientific knowledge at the Bancroft Rockhound Gemboree and to discuss our favourite subject with fellow rock and mineral loving people!



The APGO Education Foundation and Mining Matters booth at the Ottawa Lapsmith and Mineral Club Gem and Mineral Show.

Ottawa Lapsmith and Mineral Club Gem and Mineral Show

On September 17 and 18 the APGO Education Foundation and Mining Matters hosted a booth for the first time at the Ottawa Lapsmith and Mineral Club Gem and Mineral Show at the Nepean Sportsplex. We welcomed 534 visitors to our booth, where we engaged children in a frame-making activity.

We had different small rocks from the Ottawa area on hand that children used to decorate their frames and we were delighted to tell the story of how the rocks here formed. We also had a pendant-making activity using amethyst crystals for kids aged 12–18 years, giving us the opportunity to discuss the properties of Ontario's official mineral.

We look forward to returning to the Ottawa show in years to come!



Scholarships and Bursaries

We were pleased to restart our scholarship program in 2022. The 2022 scholarship recipients, each of whom received a \$5,000 scholarship, were:

APGO Education Foundation Scholarship

- **Henry Gage**, McMaster University

Robert Hodder Memorial Scholarship

- **Kathryn Cheng**, University of Toronto

In July 2022, the Foundation announced the first recipient of the inaugural professional practice and ethics exam bursary, **Rita Nzeribe**. This new Bursary Program provides funding support of \$1,500 to recent immigrants who are Geoscientists-in Training (GITs) or provisionally accepted Professional Geoscientists (P.Geo.s) with Professional Geoscientists Ontario (PGO) to complete their Professional Practice and Ethics (PPE) Exam required for registration. This program has been developed in partnership with The Professional Access Into Employment (PAIE) program operated by the Toronto and Region Conservation Authority.

Donations and Grants

The Foundation continued to raise funds to support public education, scholarships and bursaries with overall donations and grants in 2022 totaling **\$253,576**.

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 2022 with \$7,595 donated. The Foundation is also grateful to PGO for continuing to provide office support including use of their office address, a dedicated telephone line, secretarial services, as well as meeting locations.

Photo: The Lower Falls at Ball's Falls Geotrail.

Outlook for 2023

Public Education

Public Education is a major area of activity for us, and we are actively connecting with the large population base in southern Ontario about the importance of geoscience. Our major public education projects right now are:

1. Geotrails on the Bruce Trail on the Niagara Escarpment – six Geotrails have already been released. See [GeoscienceINFO.com](https://www.geoscienceinfo.com)
2. Geoscience Education partner for the proposed Niagara Peninsula Aspiring Global Geopark (NPAGG) seeking the Global Geopark designation from UNESCO. See www.niagarageopark.com
3. Urban Geotrail – downtown Toronto – Geotrail of University of Toronto Downtown Campus. [geoscienceinfo.com/vft/urban-geotrails.html](https://www.geoscienceinfo.com/vft/urban-geotrails.html)

All these Geotrails are done in ESRI StoryMaps and use all the latest technology including 360-degree photos, drone images, 3D LiDAR imagery and digital split screens to bring the public knowledge of the exciting geological and environmental history of Ontario in a fun and informative way. These Geotrails 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 2023, working with the McMaster University School of Earth, Environment & Society to expand Geotrails along the Bruce Trail. Further expansion of the Toronto Urban Geotrail is planned to incorporate natural areas in Toronto to show the full range of geology and the environment.

The Foundation is working with the NPAGG to prepare a plan for development of both Geotrails and Geotours in the proposed Geopark. A Wine Georoute is planned 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.

Beneath Your Feet: A Geoscience Blog

We launched our blog Beneath Your Feet: A Geoscience Blog January 11, 2022. We were delighted to see that our articles have been very popular in Professional Geoscientists Ontario (PGO) Field Notes newsletter: the #1, #3 and #4 most accessed newsletter articles in 2022 were from our Blog, in total 8 of the top 20 most accessed newsletter articles were from our Blog in 2022. The Blog provides a great forum for discussing any type of topic related to geoscience but not in a strict technical manner. We have articles by students, seasoned professionals, and several by our own staff. It is a great forum to put forward ideas in a less structured format as well as to bring in the humorous side of our profession. We distribute these articles on a wide variety of social media platforms and we have been getting very good traction on our articles in only a short time.



Photo: Dolostone outcrop at Sulphur Springs Geotrail.

Public Events

Providing the public with free, accessible, and accurate information on geoscience is our highest priority.

In addition to our wide range of virtual products, we reach the public directly in many public events throughout Ontario. This allows us to create connections with people, generate interest in the geosciences, and let people know about the many informative products we have available on our website.

Our 2023 public events schedule is as follows.

- **PDAC Convention** in Toronto, to showcase our website to Delegates, at the Mining Matters table just outside the Trade Show.
- **Science Rendezvous Kingston** at the Leon's Centre in May for the third year in a row. This year our theme will be "The Fossils of Kingston", where we will have an educational display of local fossils to help initiate meaningful conversations with the 5,000+ people that attend this event each year. Last year we were voted "Best Booth in Show" by the attendees.
- **GAC MAC 2023** in Sudbury in May, where we will host a full-day session on education in geoscience with Mining Matters. In addition, in partnership with Mining Matters, we will deliver a full-day workshop for local educators that helps them to effectively teach geosciences in the classroom. We are also preparing a Virtual Field Trip of Geology of the Laurentian University Campus for this event.
- **Rockhound Gemboree** in Bancroft in August. This event is touted as the largest gem and mineral show in Canada, and we are pleased to have an educational booth that appeals to people of all ages. We offer geology-based crafts for children that focus on rocks and minerals of the Bancroft area which allows us to talk about many aspects of geoscience.
- Ottawa in September for the **55th Annual OLMC Gem and Mineral Show** at the Nepean Sportsplex. We offer crafts for kids of all ages and informational displays for everyone to learn and enjoy. At our 2022 booth, we had a lot of interest in having us do Geotrails on the Rideau Trail and we are now working on these with Carleton University and Queen's University.
- **London Gem and Mineral Show** in November. This show has been cancelled for three years due to pandemic-related reasons and we are excited to again be able to interact again with people in London.

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 Geotrails in different areas of 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: Stream at Tiffany Falls showing the main and secondary channels.



Board of Directors

DR. BILL PEARSON, P.Geo., FGC

Chair

Dr. Bill Pearson has over 49 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.

DR. NEIL WESTOLL, P.Geo., FGC, FCIM

Secretary & Treasurer

Dr. Neil Westoll is widely experienced in metal 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

MONIQUE GAUDET

Business Manager

Monique Gaudet was appointed Business Manager of the APGOEF on January 1, 2022. Monique is a successful independent consultant with strong leadership, communication, and management skills who has provided strategic, business, and operational support to numerous non-profit organizations including The Community Oak Park, St Luke's Community Hub, Femmes du Vin, Advocis, and CEAN. She provides strategic and operational leadership, guides and supports volunteer Boards of Directors, and provides administrative leadership management. For clients, she streamlines processes, fulfils administrative and finance roles, researches and writes grants, project manages programs, and advances fundraising and donation initiatives. Monique holds a Business Administration Diploma (Honours) from Seneca College, an Event Management Certificate from Humber College, and holds the Certified Meeting Planner Designation of the Convention Industry Council.

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 online 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 Geotrails to the public.

BERNARD KRADJIAN

Director Marketing & Communications

Bernard Kradjian has over 12 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

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. Veronica recently received her M.Sc. in Science Communication at Laurentian University, and she holds 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.

FOUNDING SPONSORS

- Bill Pearson
- William Pearson Family Fund

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ROBERT HODDER MEMORIAL SCHOLARSHIP

- Bill Pearson

NIAGARA ESCARPMENT PROJECT

- Arsalan Mohajer
- William Pearson Family Fund



Photo: Paleontologists digging at Hungry Hollow south pit.

BALL'S FALLS GEOTRAIL CONTRIBUTORS

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

CAVE SPRINGS GEOTRAIL CONTRIBUTORS

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

CHEDOKE RADIAL GEOTRAIL CONTRIBUTORS

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

SULPHUR SPRINGS GEOTRAIL CONTRIBUTORS

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

TIFFANY FALLS GEOTRAIL CONTRIBUTORS

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

UNIVERSITY OF TORONTO URBAN GEOTRAIL CONTRIBUTORS

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

INDIVIDUAL CONTRIBUTORS

Gold (\$100 to \$499)

- Tomas Cihula
- Peter Duckworth
- Christopher Hale
- Kristin Hanson
- Monique Hobbs
- Allan MacTavish
- Rimant Zalnieriunas

Silver (\$20 to \$99)

- Brian Abraham
- John Adams
- Freduah Agyemang
- Delwar Ahmed
- Dale Alexander
- Jacqueline Allison
- Gabriel Arseneau
- Stephen Balch
- Neil Banerjee
- Marc-Andre Bernier
- Carlos Bertoni
- Alexandre Charest
- Bisnaire
- Pierre Bousquet
- Gregory Bowes
- Donald Bubar
- Stephen Burns
- William Camier
- Heather Campbell
- Joseph Campbell
- Stephen Campbell
- Terry Carter
- Peter Cashin
- Burns Cheadle
- Lesley Chorlton
- Kevin Christian
- Ian Clark
- Yves Clement
- Francesco Colozza
- Mary Jane Conboy
- Deborah Conrod
- Roger Cooper
- Julia Csath
- Laurence Curtis
- Michele Della Libera
- David Dillon
- Tiago dos Santos
- Martin Doyle
- Christopher Drielsma
- Kevin Dumoulin
- Christopher Evans
- Stanley Feenstra
- George Flach
- Donald Ford
- Jean-Pierre Francois
- James McWillie Franklin
- Wenlong Gan
- Sergio Gelcich
- Dennis German
- Philip Geusebroek
- Carl Ginn
- Richard Ginn
- David Good
- Braden Gregory
- Frank Grivich
- Scot Halladay
- Walter Hanych
- Keith Harrison
- Janet Haynes-Graham
- Robert Hearst
- Eric Hebert
- Calvin Herron
- Sarah Hirschorn
- Anthony Hobbs
- Joanna Hodge
- Kyle Horner
- Robert Hrab
- Paul Hubley
- Muin Husain
- Borislav Iotzov
- Henrique Izumi
- David Jamieson
- Maureen Jensen
- Alan Jones
- Mehrdad Zarei Joorshari
- Krystal Kant
- Julian Karas
- John Keating
- Christopher Kelly
- Ross Kelly
- Karen Kettles
- Diana Kuiper
- Pierre Lafleur
- Aimee Langlais
- Markku Lappalainen
- Sharon Lau
- Sharon Lee
- Stephen Livingstone
- Charles MacDonald
- Michael MacIsaac
- William Mackasey
- Kenzie MacNeil
- Thomas Magee
- Kelly Malcolm
- Heather Malcolmson
- Christoffel Marais
- Deborah McCombe
- William McGuinty
- Fortunato Milanese
- Bruce Miller
- Claire Milloy
- Shawn Moloney
- Jean Francois Montreuil
- Jeff Muir
- Thea Myrskog
- Barrett Nicpon
- Peter Nyabeze
- Ian O'Connell
- Ronald Ormson
- Robert Palkovits
- Christian Paramo
- Glenn Parmenter
- Marco Nieto Patarroyo
- Pradeepkumar Patel
- Mario Paventi
- Andrius Paznekas
- William Pearson
- David Peck
- Carlos Martinez Pelletier
- Jeanne Percival
- Marc Petersen
- Maria Picotti
- Daniel-Kalio Pikibo
- Garry Pringle
- Shama Qureshi
- Jamey Rosen
- Martin Ross
- Randall Ruff
- Nazha Sabiri
- Emmanuel Sakoma
- Deana Schwarz
- Carl Schulze
- Mark Sedore
- Frederick Sharpley
- Gene Shelp
- William Shilts
- Rajbinder Singh
- Paul Sobie
- Gary Sorensen
- Even Stavre
- Peter Stewart
- William Stiebel
- Michael Sutton
- Jose Texidor Carlsson
- Henrik Thalenhorst
- Malcolm Thurston
- Robert Tossell
- Norman Trowell
- Thomas Tsiboah
- Steven Usher
- Christopher Verzyden
- Philip Vicker
- Adam Virani
- Dennis Waddington
- Philip Walford
- Charles Walters
- Ryan Waram
- Mark Waychison
- Neil Westoll
- Gerald White
- William Willis
- Abdul Yassine
- William Yeomans
- Huyun Zhou

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.

Partners



Photo: Kettle in shale outcrop at Kettle Point.



Photo: Tiffany Falls at Tiffany Geotrail.

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Audited Financial Statements

APGO EDUCATION FOUNDATION
Financial Statements
Year Ended December 31, 2022





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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, 2022, 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, 2022, 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)

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APGO EDUCATION FOUNDATION

Statement of Financial Position

December 31, 2022

	2022	2021
ASSETS		
CURRENT		
Cash	\$ 12,754	\$ 17,425
Marketable securities (Note 2)	344,630	330,390
Harmonized sales tax recoverable	20,187	11,597
Prepaid expenses	556	437
TOTAL ASSETS	\$ 378,127	\$ 359,849
LIABILITIES AND NET ASSETS		
CURRENT		
Accounts payable and accrued liabilities	\$ 13,130	\$ 14,073
NET ASSETS	364,997	345,776
LIABILITIES AND NET ASSETS	\$ 378,127	\$ 359,849

ON BEHALF OF THE BOARD

William N. Pearson Director

Neil D.S. Westoll Director

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 29, 2023

The accompanying notes are an integral part of the financial statements

APGO EDUCATION FOUNDATION
Statement of Revenues and Expenditures
Year Ended December 31, 2022

	General Fund December 31 2022	Public Education Fund December 31 2022	Scholastic Fund December 31 2022	Endowment Fund December 31 2022	2022 December 31 2022	2021 December 31 2021
REVENUES						
Donations	\$ 137,890	\$ 73,396	\$ 5,000	\$ 37,290	\$ 253,576	\$ 323,053
Public education	-	-	-	-	-	20,000
	137,890	73,396	5,000	37,290	253,576	343,053
EXPENSES						
Public education	-	107,703	-	-	107,703	84,416
Salaries and wages	25,648	-	-	-	25,648	-
Website expenses	11,267	-	-	-	11,267	24,127
Accounting and audit fees	14,448	-	-	-	14,448	14,077
Advertising and promotion	27,423	-	-	-	27,423	10,892
Legal	-	-	-	-	-	4,997
General and administrative expense	20,321	-	-	-	20,321	4,015
Insurance	2,107	-	-	-	2,107	1,740
Office expense	-	-	-	-	-	362
Interest and bank charges	47	-	-	-	47	237
Scholarships awarded	10,000	-	1,500	-	11,500	-
Technology Expenses	1,524	-	-	-	1,524	-
	112,785	107,703	1,500	-	221,988	144,863
EXCESS (DEFICIENCY) OF REVENUES OVER EXPENSES FROM OPERATIONS	25,105	(34,307)	3,500	37,290	31,588	198,190

(continues)

The accompanying notes are an integral part of the financial statements

APGO EDUCATION FOUNDATION
Statement of Revenues and Expenditures (continued)
Year Ended December 31, 2022

	General Fund December 31 2022	Public Education Fund December 31 2022	Scholastic Fund December 31 2022	Endowment Fund December 31 2022	2022 December 31 2022	2021 December 31 2021
OTHER INCOME (EXPENSES)						
Gain on sale of marketable securities	5,043	-	-	-	5,043	29,455
Dividend income	2,260	-	-	-	2,260	5,189
Interest income	54	-	-	-	54	211
Foreign investment income	-	-	-	-	-	242
Investment fees	(3,542)	-	-	-	(3,542)	(3,750)
Unrealized gain (loss) on marketable securities	(16,182)	-	-	-	(16,182)	29,055
	(12,367)	-	-	-	(12,367)	60,402
EXCESS (DEFICIENCY) OF REVENUES OVER EXPENSES	\$ 12,738	\$ (34,307)	\$ 3,500	\$ 37,290	\$ 19,221	\$ 258,592

Included in Public Education is salaries

The accompanying notes are an integral part of the financial statements

APGO EDUCATION FOUNDATION
Statement of Changes in Net Assets
Year Ended December 31, 2022

	General Fund (Note 4)	Public Education Fund	Scholastic Fund (Note 3)	Endowment Fund	Total 2022	Total 2021
NET ASSETS - BEGINNING OF YEAR	\$ 130,876	\$ -	\$ 30,400	\$ 184,500	\$ 345,776	\$ 87,184
Excess of revenues over expenses	12,738	(34,307)	3,500	37,290	19,221	258,592
Generals fund contributions to other fund categories	(34,307)	34,307	-	-	-	-
NET ASSETS - END OF YEAR	\$ 109,307	\$ -	\$ 33,900	\$ 221,790	\$ 364,997	\$ 345,776

The accompanying notes are an integral part of the financial statements

APGO EDUCATION FOUNDATION
Statement of Cash Flows
Year Ended December 31, 2022

	2022	2021
OPERATING ACTIVITIES		
Excess of revenues over expenses	\$ 19,221	\$ 258,592
Items not affecting cash:		
Gain on disposal of investments	(5,043)	(29,455)
Unrealized gain (loss) on marketable securities	16,182	(29,055)
	30,360	200,082
Changes in non-cash working capital:		
Harmonized sales tax recoverable	(8,590)	(5,381)
Prepaid expenses	(119)	(9)
Accounts payable and accrued liabilities	(943)	2,223
	(9,652)	(3,167)
Cash flow from operating activities	20,708	196,915
INVESTING ACTIVITIES		
Purchase of marketable securities	(62,680)	(324,685)
Proceeds on disposal of marketable securities	37,301	141,489
Cash flow used by investing activities	(25,379)	(183,196)
INCREASE (DECREASE) IN CASH FLOW	(4,671)	13,719
Cash - beginning of year	17,425	3,706
CASH - END OF YEAR	\$ 12,754	\$ 17,425

The accompanying notes are an integral part of the financial statements

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.Geos) 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 (ASNFP). 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

	2022 Cost	2022 Market Value	2021 Cost	2021 Market Value
General Fund marketable securities	\$ 102,813	\$ 113,270	\$ 108,987	\$ 130,390
Endowment Fund marketable securities	219,222	231,360	184,500	200,000
	-	-	-	-
	\$ 322,035	\$ 344,630	\$ 293,487	\$ 330,390

APGO EDUCATION FOUNDATION
Notes to Financial Statements
Year Ended December 31, 2022

3. SCHOLASTIC FUND

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

	2022	2021
Past Presidents Bursary	\$ 26,300	\$ 22,800
Arsalan Mohajer Bursary Fund	5,000	5,000
Dr. Robert Hodder Scholarship	2,600	2,600
	\$ 33,900	\$ 30,400

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 2021 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. Due to the impact of COVID-19 only one public event in early March was attended during the year.

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 member 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, 2022

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, 2022.

(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 2021.

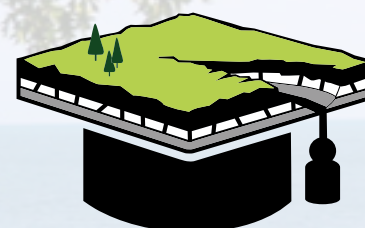
(b) Market risk

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 2021.

(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 2021.

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



APGO education foundation

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BRINGING GEOSCIENCE TO THE PUBLIC

Charitable Registration
Number 84604 5052 RR0001