HONESTY AND AVOIDING THE MISUSE OF MODELS  
(VIRTUAL PRESENTATION)

**When:** 12:00 PM – 1:00 PM February 18, 2021  
**Speaker:** David Abbott, Jr.

**PRESIDENT’S MESSAGE**

While I am writing this message, I’m waiting to sign on to a webinar with Regenesis and Land Science. There are a lot of opportunities for different classes and lectures on the internet. Many of these offer CEUs, which is important for the members that need continuing education hours. Also, for our student members some of these webinars would look great on your resume.

In the last two months I’ve listened to a series of six webinars on geoheritage and two sessions on 3D geology. In this newsletter you will see that American Geosciences Institute will have three sessions in February on critical minerals. A flyer and registration are below.

The deadline for students to apply for AIPG National Scholarships is February 1, 2021. The details in applying are below. Also in this newsletter are the names of the students that will receive our section scholarship. I would like to thank the members that contributed for our scholarships.

We hope to announce soon concerning our AIPG Georgia Section Technical Conference. We will be contacting our exhibitors and speakers that had signed up for our conference in April 2020 that was canceled because of the virus. If most people receive the vaccine then we think the environmental community will really want to get together to learn new material and to get out and see their friends and colleagues.
February 18, 2021 Zoom meeting details
AIPG Georgia is inviting you to a scheduled Zoom meeting.

Topic: AIPG Georgia Virtual (Zoom) Meeting  
Business: Feb 18, 2021 11:45 AM Eastern Time (US and Canada)  
Presentation: Noon  
Title: Honesty and avoiding the misuse of models  
Presenter: David M. Abbott, Jr.  
Discussion and Social: 12:45 PM Eastern

Join Zoom Meeting  
https://us02web.zoom.us/j/83397665198

Meeting ID: 833 9766 5198  
One tap mobile  
+13126266799,,83397665198# US (Chicago)  
+16465588656,,83397665198# US (New York)

Dial by your location  
+1 312 626 6799 US (Chicago)  
+1 646 558 8656 US (New York)  
+1 301 715 8592 US (Washington D.C)  
+1 346 248 7799 US (Houston)  
+1 669 900 9128 US (San Jose)  
+1 253 215 8782 US (Tacoma)

Meeting ID: 833 9766 5198  
Find your local number: https://us02web.zoom.us/u/kzMhHkJ5

Abstract
Honesty is the principal geoscience ethical principle. Honesty is more than not lying, it includes avoiding omission of material facts and bending over backwards to avoid unrecognized bias or deception. We all use geoscience models but models are not the whole truth. They are based on interpretations and estimates, not facts. Models can never be validated, only invalidated when compared with actual data. We must understand what happens in the ‘black box’ if we are to ensure the quality of our outputs. This is most important when applying computer-based algorithms to produce geological surfaces that are spatially incomplete and difficult to refine. All models are wrong, some are useful.

David Abbott, Jr. Bio
Consulting Mining Geologist & Geoscience Ethics Columnist  
Denver, Colorado  
303-946-6112, dmageol@msn.com

• Geologist with the US Securities and Exchange Commission 1975-1996, investigated mining and oil and gas fraud among other duties
• Consultant since 1996 specializing in the due diligence review of reserve and resource estimates, in
the review of disclosures about natural resources disclosures, and the review of mineral exploration
and development programs for precious and base metals, and industrial minerals.
• American Institute of Professional Geologists Ethics Committee Chairman Emeritus since 2017
following over 20 years as Chairman
• Compiler of The Professional Ethics & Practices column in AIPG's The Professional Geologist
since 1995; 174 columns published so far
• American Association of Petroleum Geologists Distinguished Lecturer for Ethics 2018-19.
• Author of over 50 papers on geoscience ethics since 1989
• Member Australasian Institute of Mining and Metallurgy's Ethics Committee
• A.B. in earth sciences from Dartmouth College
• M.S. in geology from the Colorado School of Mines.
• Honorary Member of AIPG and Certified Professional Geologist-4570
• Fellow of AusIMM, GSA, GSL, SEG
• Member of MMSA, SME

The Deadline for AIPG National Scholarships is February 1, 2021.
For 2020 we had two scholarship winners from Georgia Southern and University of West Georgia.
AIPG National gave out 15 undergraduate and two graduate scholarships. Below are the
application requirements. I encourage all our student members to consider applying.

AIPG National Undergraduate Scholarship

Purpose
To assist students with college education costs and to promote student participation in the
American Institute of Professional Geologists (AIPG). Up to ten scholarships will be awarded to
declared undergraduate geological sciences majors who are at least sophomores. Details for
applying for these scholarships are provided below.

Scholarship Awards
Scholarship awards in the amount of $1,000.00 - $3,000.00 each will be made to eligible
students attending a college or university in the U.S. Scholarships are intended to be used to
support tuition and/or room and board.

Eligibility Requirements
Any student who is majoring in geology (or earth science), is at least a sophomore, and is
attending a two-year or four-year accredited college or university in the U.S. can apply. Also, the
student must be either a student member of AIPG or must have applied for student membership
at the time the application for the scholarship is submitted.

Each student who is awarded a scholarship agrees, by accepting the scholarship, to prepare a
600 to 800 word article for publication in The Professional Geologist. The subject of the article
must be related to a timely professional issue.
Application Process

1. Submit a cover letter introducing yourself and tell us what you have done outside of the classroom such as research projects, officer in club, or outside activities within the community. Address your career goals in near term and longer term. Provide your academic objectives: If you are attending a two-year institute do you plan to continue to a four-year institute and complete a degree? If you attend a four-year institute do you plan to attend graduate school?

2. Submit a one-page (800 words strictly enforced, 12 pt, times new roman, 1 inch margins, left justify) essay on “Why I Want to be a Geologist”.

3. Submit a copy of your transcript (unofficial) and documentation that you are a current student. Requisite standards to apply are a minimum GPA of 2.8 (on a 4 point scale) and a minimum of 12 semester credits of geology/geoscience courses with a 3.0 GPA in these courses completed at time of application.

4. Submit a letter of recommendation from a geology/geoscience professor that provides an emphasis on your performance and activities in the classroom, in the department, and your character in how you work and help other students.

The application packet should be submitted to:

American Institute of Professional Geologists
Attn: Education Committee Chr.
1333 W. 120th Ave., Suite 211
Westminster, Colorado 80234-2710
(303) 412-6205 or e-mail: aipg@aipg.org.

If you are submitting your application materials by email, please format the subject line as follows: AIPG Scholarship - Type of Scholarship (Undergrad or Grad) - Last Name - Submission. For example, AIPG Scholarship - Undergraduate - Doe - Essay. You may submit all application materials in one email, and, if necessary, one file.

Application Deadline and Award Date
Applicants must be received by midnight Mountain Standard Time (MST) on February 1st, which is to say, before on February 1st. Awarded the month of May.

Basis of Awards
Awards will be based on the cover letter, recommendation, transcript and the content and creativity of the essay as judged by the Education Committee. The decisions of the Education Committee are final.

Miscellaneous
Application requirements for student membership to AIPG: Student must be currently enrolled in a geological science degree program (as defined by the American Geosciences Institute).

AIPG student membership is available online or applications can be obtained from:

American Institute of Professional Geologists
1333 W. 120th Ave., Suite 211, Westminster, Colorado 80234-2710
(Application forms are also available on the AIPG website http://www.aipg.org)

Join Online! Student Membership is Free!
Foundation of AIPG William J. Siok Graduate Scholarship Program

Purpose

To assist graduate students with college education costs and to promote student participation in the American Institute of Professional Geologists (AIPG). One scholarship will be awarded to a declared graduate student in an accredited geoscience program with an emphasis in environmental geoscience and/or hydrogeology. Details for applying for this scholarship are provided below.

Scholarship Awards

Scholarship award is in the amount of $1,000.00 to an eligible graduate student attending a college or university in the U.S. Scholarships are intended to be used to support tuition, room and board, and/or research.

Eligibility Requirements

Any graduate student who is majoring in the geosciences in the U.S. can apply. Also, the student must be either a student member of AIPG or must have applied for student membership at the time the application for the scholarship is submitted.

The student who is awarded the scholarship agrees, by accepting the scholarship, to prepare a 600 to 800 word article for publication in *The Professional Geologist*. The subject of the article must be related to a timely professional issue.

Application Process

1. Submit a cover letter introducing yourself and tell us what you have done outside of the classroom such as research projects, officer in club, or outside activities within the community. Address your career goals in near term and longer term.

2. Submit a one page (approximately 750 words) essay on a topic the AIPG Education Committee will decide on annually. The 2020 scholarship essay topic is:

   **Focus on a single theme of your choice, and explain how the profession of geology, over the coming decade, should best contribute to addressing a problem for the well-being of the public. In your essay explain (1) Why your theme choice is significant and (2) How professionals educated in geology are essential to contributing successfully to addressing the problem. Try to be as specific as possible in addressing Item #2.**

3. Submit a copy of your transcript (unofficial) and documentation that you are a current student. Requisite standards to apply are a minimum GPA of 2.8 (on a 4 point scale) and a minimum of 12 semester credits of geology/geoscience courses with a 3.0 GPA in these courses completed at time of application. Those credits can come from previous grad or undergrad studies.

4. Submit a letter of recommendation from a geology/geoscience professor that provides an emphasis on your performance and activities in the classroom, in the department, and your character in how you work and help other students.
The application packet should be submitted to:

American Institute of Professional Geologists  
Attn: Education Committee Chr.  
1333 W. 120th Ave., Suite 211  
Westminster, Colorado 80234-2710  
aipg@aipg.org

Questions regarding the application process can be directed to  
(303) 412-6205 or e-mail: aipg@aipg.org.

If you are submitting your application materials by email, please format the subject line as follows: Foundation Scholarship - Type of Scholarship (Undergrad or Grad) - Last Name of Applicant - Submission. For example, Foundation Scholarship - Graduate - Doe - Letter of Recommendation. You may submit all application materials in one email, and, if necessary, one file.

**Application Deadline and Award Date**

Applications must be received by midnight Mountain Standard Time (MST) on February 1st, which is to say, before on February 1st.  
Awarded the month of May

The scholarship award will be based on the cover letter, recommendation, transcript and the content and creativity of the essay as judged by the Education Committee. The decision of the Education Committee is final.

**Miscellaneous**

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AIPG student membership is available [online](http://www.aipg.org) or applications can be obtained from:

American Institute of Professional Geologists  
1333 W. 120th Ave., Suite 211, Westminster, Colorado 80234-2710  
(Application forms are also available on the AIPG website [http://www.aipg.org](http://www.aipg.org))

**Join Online! Student Membership is Free!**

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**Georgia Section Scholarship Winners 2021**

Georgia Southern – Samuel Winters  
Columbus State – Hays Slaughter  
University of Georgia – Caroline Hiott  
Georgia State – Donata Borsos  
Georgia Southwestern State – Ian Wynn and Dasan McElroy  
West Georgia – Kristen Tracy  
University of North Georgia – Jeremiah Funke  
Berry College – Devon Thomas
New critical mineral deposits are required to secure the supply of natural resources that are used in today’s advanced technologies. The discovery and sustainable development of these new deposits represents a global challenge. Governments and international geological survey organizations are responding by improved multinational cooperation, data sharing, and through investments in geoscientific research. This Critical Minerals Forum brings together representatives from multiple geological surveys organizations to provide an update on the latest geoscience results and to discuss future critical mineral research.

Presentations will focus on advanced mineral system models that are applicable to critical minerals and new methods for modelling mineral potential in buried, remote, and/or other challenging mineral exploration settings. Both of these research themes are included within the new Critical Mineral Mapping Initiative that is being conducted between the Geological Survey of Canada, Geoscience Australia, and the United States Geological Survey. Global efforts to expand this collaboration, including the development of an online geochemical portal for critical mineral deposits, will be discussed as part of this special session and is open to further contributions, research, and analysis.

The Critical Minerals Forum will be hosted as a set of three regional sessions (Americas, Europe and Africa, and Asia and Oceania). Each regional forum will feature pre-recorded lectures from science policy experts and geoscientists and a live plenary and moderated discussion session with attendees.

All pre-recorded presentations will be made available online the Monday prior to the live plenary and discussion sessions, and aired prior to the live sessions.

For more information, including registration details, please visit: www.americangeosciences.org/webinars/critical-minerals-forum-2021

All sessions will be conducted in English with live captioning in French, Spanish, Portuguese, Russian, Modern Chinese, and Hindi.

Please contact Christopher Lawley at christopher.lawley@canada.ca with any questions about this webinar series.
Americas - 12 February 2021

*The role of geological survey organizations to advance critical mineral research*

Pre-recorded presentations live stream 11.00 - 13.00 EST | Available online 08 Feb
Live plenary and discussion 13.00 - 14.30 EST
10.00 (Vancouver) · 13.00 (Toronto, Lima, New York) · 18.00 (London) · 19.00 (Paris, Lagos)
20.00 (Johannesburg) · 21.00 (Nairobi) · 23.30 (Mumbai)
13 February 2021: 00.00 (Dhaka) · 02.00 (Beijing) · 03.00 (Tokyo) · 05.00 (Sydney)

Moderated by Geoff Plumlee, United States Geological Survey, USA

*Presenters*
Warren Day and Anne McCafferty (plenary speakers), United States Geological Survey, USA
Geneviève Marquis, Geological Survey of Canada, Canada
Jean-Yves Labbé, Québec Ministère de l’Énergie et des Ressources Naturelles, Canada
Natalia Amezcua, Servicio Geológico Mexicano, Mexico
Felipe Espinoza, Servicio Nacional de Geología y Minería, Chile
Felipe Mattos Tavares, Serviço Geológico do Brasil, Brazil

Europe and Africa - 19 February 2021

*The past, present, and future directions of critical mineral research*

Pre-recorded presentations live stream 11.00 - 13.00 CET | Available online 15 Feb
Live plenary and discussion 13.00 - 14.30 CET
04.00 (Vancouver) · 07.00 (Toronto, Lima, New York) · 12.00 (London) · 13.00 (Paris, Lagos)
14.00 (Johannesburg) · 15.00 (Nairobi) · 17.30 (Mumbai) · 18.00 (Dhaka) · 20.00 (Beijing)
21.00 (Tokyo) · 23.00 (Sydney)

Moderated by Geneviève Marquis, Geological Survey of Canada, Canada

*Presenters*
Daniel de Oliveira and Javier González Sanz (plenary speakers), Laboratório Nacional de Energia e Geologia and Instituto Geológico y Minero de España, Portugal and Spain
Saku Vuori, Geologian Tutkimuskeskus, Finland
Kathryn Goodenough, British Geological Survey, United Kingdom
Blandine Gourcerol, Bureau de Recherches Géologiques et Minières, France
Gautneb Håvard & Janja Knežević Solberg, Norges Geologiske Undersøkelse, Norway
Lesego Peter, Botswana Geoscience Institute, Botswana
Taufeeq Dhansay, Council for Geoscience, South Africa

Asia and Oceania - 26 February 2021

*Geoscience to support critical mineral discovery*

Pre-recorded presentations live stream 11.00 - 13.00 AWST | Available online 22 Feb
Live plenary and discussion 13.00 - 14.30 AWST
00.00 (Toronto, Lima, New York) · 05.00 (London) · 06.00 (Paris, Lagos) · 07.00 (Johannesburg)
08.00 (Nairobi) · 10.30 (Mumbai) · 11.00 (Dhaka) · 13.00 (Beijing) · 14.00 (Tokyo)
16.00 (Sydney) | 25 February 2021: 21.00 (Vancouver)

Moderated by Marina Costelloe, Geoscience Australia, Australia

*Presenters*
Karol Czarnota (plenary speaker), Geoscience Australia, Australia
Young Joo, Coordinating Committee for Geoscience Programmes in East and Southeast Asia, Thailand
Seong-Jun Cho, Korea Institute of Geoscience and Mineral Resources, South Korea
Regine Morgenstern and Rose Turnbull, GNS, New Zealand
Helen Degeling, Geological Survey of Queensland, Australia