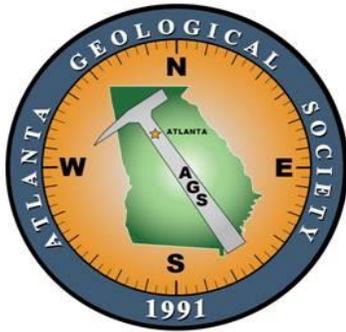
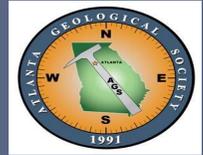


Atlanta Geological Society Newsletter

August 2021



AGS ³⁰ Atlanta Geological Society 30th year

(1991-2021)

Annual membership

- General: \$25
- Student: \$10
- Corporate: \$200

- [Click here to join](#)

President's Message



Hello everyone. I would like to thank Andrew Rindsberg for presenting on trace fossils found in the Silurian Red Mountain Formation during our online meeting in July. His presentation was extremely educational and really helped those of us – especially me – who are interested in “worm” burrow traces. However, I am bummed that the

Ringgold Gap exposure is basically closed.

So, you may be asking yourself, “Is the planned Summer Social/BBQ still set for our August 31st meeting?” In a word, yes. Here are the details that may help you in deciding on whether you should attend or even if you have already made your reservations. First of all, there is still plenty of time to make your reservation to attend this in-person, face-to-face event. [Click here](#) to make your reservation(s).

We will be following [CDC safety protocols as implemented by Fernbank Museum](#). As such, if you are sick or experiencing flu-like symptoms, please stay home and we hope you feel better soon. With this said, here is how we are expected to behave to ensure a safe and enjoyable evening:

- Face coverings for both vaccinated and unvaccinated people are required at all times while indoors at the museum and theatre.
- Practice physical distancing of a minimum of 6 feet between those outside of you and your guests.
- Proceed down the stairs to the Rotunda and lineup in front at the tables manned by our volunteers who will
 - 1.) check you in and help ensure that your AGS membership is current and collect your dues if necessary (contact Treasurer [John Salvino](#) if you are not sure);
 - 2.) receive your cash or check payment for your guest(s);

August Meeting

August 31, 630pm

Annual BBQ Social @ Fernbank Museum

In this Issue

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Atlanta Geological Society Newsletter

August 2021



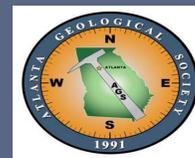
- 3.) provide you with a ticket stub for door prize; and
 - 4.) pickup your pre-ordered AGS T-shirt (contact [John Clarke](#) to make arrangements if you can't attend the social).
- Dining is anticipated to be in the Rotunda under the dinosaurs so that people will be better distanced. (This area is nearly x4 larger than the Dining Room and has a high ceiling). Please select a table for you and your guests and/or other individuals who you've already chosen to safely dine with. (I recommend that you select your table prior to entering the food line). Each dining table will be identified with a letter designation.
 - Please drop off your door prize donation while enroute to your table. Set your item on one of two tables identified as Adult Prizes and Youth Prizes.
 - Additional volunteers will be present to serve the BBQ meal and drinks while you patiently shuffle along the food line with your mask on in an orderly fashion practicing appropriate physical distancing. There is no rush.
 - Please do not bus your tables until you hear the announcement.
 - While you're all still sitting at your tables, I'll make some presidential announcements (blah, blah, blah) before proceeding with the door prizes. After I've announced a winner (refer to your color-coordinated ticket stub), please proceed toward the appropriate Adult Prizes or Youth Prizes table where you may claim your prize from my assistant. As described above, there is no rush.
 - If for some reason you do not enjoy the door prize you may have won, feel free to arrange a swap with any of your Society members or their guests after exiting the museum (see below).
 - After completion of the door prizes and some closing remarks, I'll identify the order for the busing of each table and putting chairs and tables in storage. Those needing assistance with clearing their table or moving furniture may call for a volunteer.
 - To maintain safety while in the theatre, Fernbank
 - 1.) has limited the duration of each show to 25 minutes;
 - 2.) is only showing 2D movies (no need for 3D glasses);
 - 3.) has identified vacant rows to assist us in practicing physical distancing;
 - 4.) has cleaned seatbacks, handrails, and armrests between every screening; and
 - 5.) requires that we physically distancing ourselves from those other than you and your guests by at least two seats and
 - 6.) requires that we continue to wear our face coverings until after we have exited the theatre and museum.
 - I've gone ahead and ordered fair skies for the 31st so we'll have the opportunity to chit-chat maskless outside the front doors of the museum. Swapping door prizes will be available at this time.

Nils Thompson, AGS President
captain.nils@outlook.com

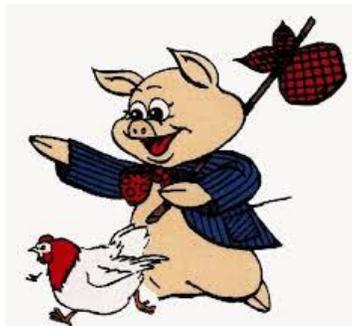
EARLY TESTING OF



MOE'S HARDNESS SCALE



AGS Annual BBQ Dinner



Come join us as we resume our in-person meetings for some great food and fun! Door prizes, giant screen movie and socializing in person!

NOTE: T-shirt orders will be available for pickup at the dinner

When: Tuesday, August 31, 2021, 630pm

Where: Fernbank Museum

Cost: Members Free; Guests \$5

Reservations: Please make your reservation using this link [Reservations](#)

Door prizes: Please bring items to give away as [door prizes](#). These can be geology books, maps, samples, rocks, fossils, company swag or an endless list of other things that might interest AGS members and friends. Tag your donation as "Mature" if you feel the gift is best suited for an adult or "Youth" for our young guests. Note: Thanks to Michael Peck there will be a book fair giveaway, featuring a wide variety of historic GGS publications.

Sponsors: Thanks to [Golder Associates](#) for signing up to be a sponsor of the annual dinner.

SPONSORS NEEDED FOR OUR ANNUAL BBQ SOCIAL

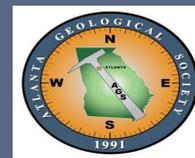
[Click here for more information](#)

Continuing Education Credits for AGS Activities

Atlanta Geological Society provides self-download of Continuing Education Certificates for Professional Development Hours (PDH) to its AGS members who participate in monthly lectures, field trips, or PG study group classes based on an Honor Code. In accordance with the Registration of Geologists Act of 1976, Section 43-19-12: Qualifications of applicants, "To be eligible for a certificate of registration, an applicant shall meet each of the following minimum qualifications: 1) Be of good ethical character..."

Because registered geologists in Georgia are required to be of good ethical character, forms are available for professionals to download to help comply with requirements for continuing education as required by states or other professional organizations. By downloading a certificate, you certify that you attended the entire duration of the specified meeting, course, or field trip. The number of hours credited are based on guidelines established by the [Alabama board of Licensure for Professional Geologists \(2005\)](#) as follows: Monthly lecture (1 hr); PG Workshop (2hr); Field Trip (max 7 hr/day); Speaker or instructor (length of presentation or class).

To download a certificate you should go to our [website](#), complete the required form for each certificate downloaded.



AGS at 30—Memories of the very first meeting

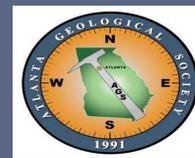
Ben Bentskowski

It was some 30 years ago when my boss at Metcalf & Eddy, Carol Sweet, asked if I wanted to go to the inaugural meeting of the Atlanta Geological Society. It was to be a luncheon (remember those?) at a round hotel at the intersection of I-85 and Druid Hills. The hotel is gone now, making way for health care facilities. The topic was to be the Channeled Scablands of eastern Washington State. Those features were caused by the repeated flooding from the breaching of ice lakes during the Pleistocene.

I grew up in Florida and studied geology in Florida. Ice aged flood events at the other end of the country was something I knew very little about and it sounded most interesting. Carol and I went, paid our fee, and then had an un-memorable lunch followed by the presentation. I had focused on sedimentology studying the recent environments in Florida and later the Pennsylvanian aged sediments in the subsurface of Kansas and Oklahoma in the Oil Patch. I don't remember the speaker but he showed maps and photos of meandering channels, erosional features and discussed the volume and velocity of the water released during the periodic floods. He then he tied it all together with Stokes law, the one that expresses the relationship between particle size and water velocity. From the size of the structures, the size of the boulders, the depth of the canyons and the height of the cliff faces, the volume of water was almost beyond comprehension.

We were all enthralled with the story of this geologic cataclysm and then the slides changed texture and composition. They were of the same kind and scale of features with the same geomorphology; huge structures formed by amazing water flows, but they were photos of the surface of Mars!! We were all astounded. Remember, this was 30 years ago. Right now, we have a robot vehicle guided by a robot helicopter trying to collect Martian geologic samples while evaluating the surficial sedimentology of another planet.

So much has changed in 30 years yet so much hasn't. Geologists are still using the application of basic principles to study new environments but this time on another planet. From the AGS perspective, sharing a good story so your fellow geologists can learn from your knowledge and experience continues. I am proud to have been associated with the AGS all these years and soon we can all gather to have some BBQ in a bit of an anniversary celebration in a couple of weeks. May the tradition of exploring geology and geologic fellowship continue.



Field Trip to Barrow County

The Atlanta Geological Society will host a one-day, self-driven field trip from 9 a.m. until 3:00 p.m. on Saturday, September 25 to highlight the geology of Barrow County, the most eastern county in Metropolitan Atlanta. The trip will begin at 9:00 a.m. at the Fort Yargo State Park visitor center. The trip will be led by AGS Field Trip Coordinator, Fernbank Science Center planetary geologist, and Barrow County native Scott Harris. We will investigate Proterozoic to early Paleozoic metamorphism, Mesozoic magmatism, and a Pleistocene peat bog (incorrectly referred to as "mud volcano" in some media). This is the first in a series of trips to explore the geology of each of the Metro Atlanta counties.

Please register for the trip using the form at <https://forms.gle/1eUZhdEzfQ5xQqK8>

Also complete the Participation Waiver form at <http://atlantageologicalsociety.org/participation-waiver/>

If you have any questions, please email Scott at scott.harris@fernbank.edu.

Join the Atlanta Geological Society

Membership categories:

- General (\$25) shall be persons who are interested in the geological sciences.
- Student (\$10) shall be full-time undergraduate, graduate or post-graduate students enrolled at an accredited college or university and who are interested in the geologic sciences.
- Corporate (\$200) shall be Registered Georgia Corporations engaged in geologic, engineering or other related services. Each Corporate Membership shall provide for up to 5 General Memberships for employees of the corporation and advertisement in the association newsletter and web site.

To join the organization, go to: <http://atlantageologicalsociety.org/membership-and-dues/>

United Consulting Renews Corporate Membership



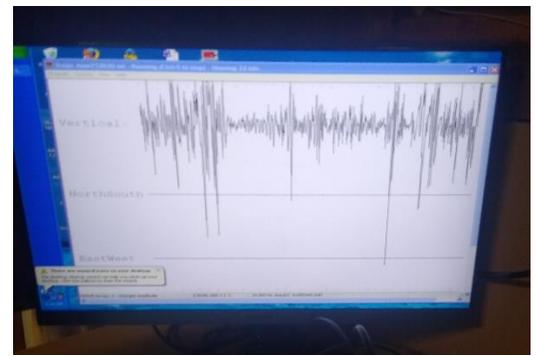
Longtime supporter United Consulting has renewed its corporate membership with AGS. Since 1990, United Consulting has provided expert consulting engineering and geotechnical services for the built environment. We specialize in earth sciences, environmental sciences, site/property evaluations and soil testing services. At United Consulting, we provide more than distinct engineering and environmental services – we approach each assignment with the philosophy that the client's needs and concerns are the reasons we are in business. AGS corporate memberships are available for \$200 to registered Georgia Corporations engaged in geologic, engineering or other related services. Each Corporate Membership shall provide for up to 5 General Memberships for employees of the corporation and advertisement in the association newsletter and web site. To join the organization, go to: <http://atlantageologicalsociety.org/membership-and-dues/>



Seismologist Keeps on Monitoring

John Clarke

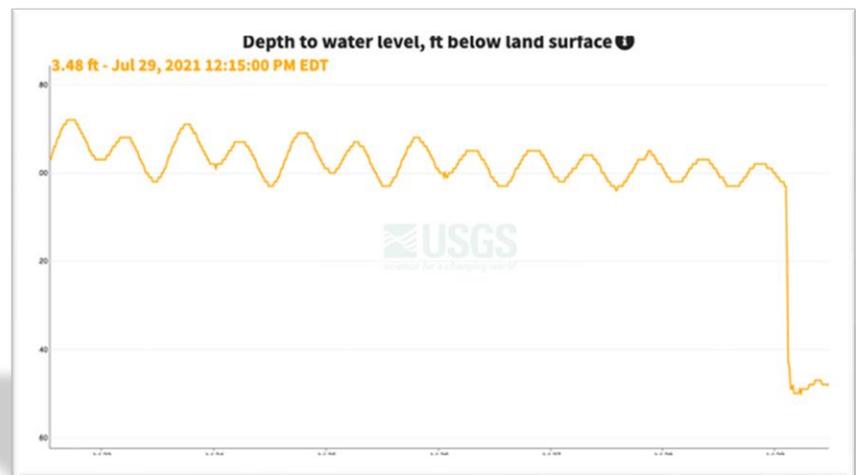
On July 31, I was happy to visit with Dr. Tim Long, retired professor from Georgia Tech, at his home at Bent Tree, near Jasper, Georgia. Bent Tree is a popular place for geoscience retirees, with residents including former State Geologist Bill McLemore, former Ga EPD director Harold Reheis, Tim Long, and myself. Tim is a long time AGS member, who is happy to participate in our monthly meetings via Webcast. Tim is a seismologist, who continues to monitor activity with his own seismograph. The sensitivity of the instrument was evident as it captured our entrance into the room. Tim reports that the recent 8.2 magnitude earthquake off of the Aleutian Islands was recorded on the device. Tim's seismograph is part of the [Raspberry Shake Seismic Network](#), a worldwide network of Citizen scientists who monitor earthquake activity. This was formerly called the Public Seismic Network (PSN) (<http://psn.quake.net/>).



Alaskan Earthquake Produces Water Level Changes in South Carolina Well

Did you know [#earthquakes](#) can cause changes to [#groundwater](#) levels thousands of miles away from the epicenter? USGS groundwater monitoring wells across the nation recorded

groundwater changes caused by the powerful magnitude 8.2 earthquake that struck off the coast of [#Alaska](#) July 28, 2021 at 10:15 pm local time. A USGS groundwater well in Anderson County, [#SouthCarolina](#) clearly recorded a change, which can be seen in the image below and here: <http://ow.ly/CvN650FGwbV>. For more information on why this occurs, visit: <http://ow.ly/ZWvb50FGwbU>. For more details on the Alaska earthquake, visit: <http://ow.ly/pktn50FGwbW>





Outcrop of the Month

Bill Witherspoon

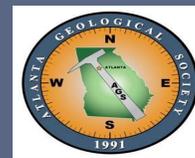
Welcome to the third installment of “Outcrop of the Month.” This feature will rotate around Georgia. The Outcrop of the Month articles will make use of pictures and text from *Roadside Geology of Georgia* by AGS Vice-President Pamela Gore and me. The following is adapted from pp 168-170.

On the west edge of the town of Gore, 4.9 miles east of Summerville, a long road cut on the north side of U.S. 27 exposes about 15 feet of black Chattanooga Shale overlain by Fort Payne Chert. The Chattanooga Shale is just one of many extensive Middle to Late Devonian–age black shale units throughout the world. This has led geologists to wonder why oxygen-poor conditions were so widespread at this time. One possibility is eutrophication. In Middle to Late Devonian time, land plants with deep roots were taking hold for the first time, extracting nutrients from weathered rock. Dead plant matter washed into waterways, and excess nutrients ultimately accumulated in the sea. These nutrients may have triggered eutrophication episodes, or dead zones, in the world's oceans. The oxygen-poor seawater that preserved so much oil shale triggered extinctions of marine organisms, such as several groups of trilobites and brachiopods. As a result, one of the five great mass extinction episodes in Earth history occurred in Late Devonian time. The few fossils known from the Chattanooga Shale are floating organisms that drifted in from more hospitable waters, or organisms that survive under low-oxygen conditions.



The Chattanooga Shale outcrop west of Gore.

A bed of green shale overlies the Chattanooga Shale in the Gore road cut. The shale contains both the green mineral glauconite and phosphate nodules, which are made of the mineral apatite. Both minerals are indicators that the shale was deposited slowly. The green shale is the Mississippian-age Maury Shale Member of the Fort Payne Chert, named after Maury County in Tennessee, where it is thick enough that the phosphate is mined for fertilizer. The green shale represents a transition to more-oxygenated conditions. Clearly the overlying Fort Payne Chert was deposited in well-oxygenated water, because in many locations it contains abundant fossils of crinoids, brachiopods, and bryozoans. The fossils were originally calcite, but the calcite was long ago replaced by chert through the movement of groundwater. Fort Payne fossils made of chert are easiest to find in residuum. The groundwater movement that replaced the calcite also left some cavities in the rock. Some are fossil molds in the shape of crinoids or other organisms that dissolved away. Some are also geodes lined with small crystals. (Note: The Late Devonian eutrophication-extinction idea recaps work published in the late 1990's by Thomas Algeo of the University of Cincinnati and co-authors.)

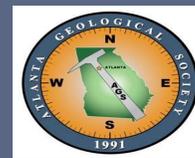


In Memory of David Prowell



USGS Geologist David C. Prowell, 72, passed away on July 16 at home. He battled Lewy-Body dementia and peacefully passed surrounded by family. He is survived by his three children, Tanya, Jason, and Katie, and their mother, Glenda, as well as seven grandkids. He was born in Newnan, GA on May 8th, 1949 and spent his childhood in Moreland, GA and Fairburn, GA. After graduating from Campbell high school in 1967, he attended Emory University. He earned his BSN masters in geology. While in high school, he met Glenda and they married while in college. They moved to UC Santa Cruz where he earned his PhD in Geology, writing his thesis about the San Andreas Fault. In 1974, he took a position with the USGS in Reston, VA and moved back across the country. This job eventually led to a move back to Georgia and co-location with the Water Resources Division's Georgia District office in 1981. After 30+ years with the USGS, David retired and spent more time with his kids and grandkids, all of which he loved dearly. His hobbies included genealogy, knife-making, custom woodworking, and spending time with his loyal dogs, Cinder, Shadow, and Dixie. David was always a great storyteller and jokester and his sense of humor was known by all. He made wonderful memories with family and friends and will be dearly missed. A celebration of life will be held at a future date due to Covid concerns and David's wishes to keep everyone healthy.

Editors Note: I personally worked with Dave for many years at USGS. Dave was a skilled geologist who was a significant contributor to defining the stratigraphy of Coastal Plain sediments throughout Georgia and the Carolinas, particularly Paleocene and Late Cretaceous. He served as my geologic mentor, offering insights into how depositional environments affect hydrogeologic frameworks. I owe him a great debt as he helped me define aquifer systems in Georgia's Coastal Plain, such as the [Dublin and Midville aquifer systems](#). He was instrumental in helping revise and improve understanding of Late Cretaceous sediments along the Savannah River as part of the SRS Trans-River Flow study. Dave's [bibliography](#) documents his contributions to structural geology (faults) and stratigraphy. Dave had a great sense of humor and was always there to help out a friend or colleague. He will be missed by all who knew him.



Featured School: Berry College

Tamie Jovanelly, Associate Professor



Berry College is a premiere liberal arts college located at the foothills of the Appalachians in Mount Berry, Georgia, approximately 80 miles north of Atlanta. The 18-credit hour Geology Minor supports the Environmental Science, Environmental Studies, Physics, Engineering, and One Health

Science majors. The geology curriculum focuses on the use of the "World's Largest Campus" whereby utilizing parts of its 27,000 acres and 80-miles of hiking trails for outdoor labs, student research, and general investigations. The campus is unique because it offers access to exposed stratigraphy, a network of 26 monitoring wells, karst topography, rivers, springs, and a decommissioned quarry. While Berry College is located in the Ridge and Valley geological province, the college is a quick field trip to the Appalachian Plateau, Blue Ridge, or Piedmont allowing students to have other off-campus field experiences.

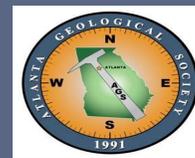


Geoscience curriculum is taught by Dr. Tamie Jovanelly, Associate Professor of Geology. She received her PhD from Kent State University, her MS from University of Nebraska, and her BS from University of Michigan. Over 15-years her research has been broad scoping and impressive. Most recently, she is sole author of the award-winning monograph titled, *Iceland: Tectonics, Volcanics, and Glacial Features* (Wiley, 2020). In continuation with her investigations in climate change she received a Research Scientist position on a cruise to Svalbard in 2021.

Additionally, she is classically trained as a hydrologist and has completed water quality assessments on 5 continents comparing developed, undeveloped, and developing countries while focusing on major river systems (Nile, Ganges, Amazon, Mississippi, etc.). In 2017-19 she was awarded a US Fulbright Research position with Nacional Universidad (Costa Rica) to study water resources in national parks. This came after she completed her first Fulbright Research assignment (2013-14) with Makerere University (Uganda) where she focused on forest hydrology; a project funded by the National Geographic Society. She has published journal articles in *Sustainable Water Resources Management* (2020), *International Journal of One Health* (2020), *Journal of Public Health in Developing Countries* (2016), *Journal of Water and Health: World Health Organization Press* (2014). Furthermore, she received a Rufford Foundation Conservation Trust Grant (2015) that supported a collaborative research project with the Kenyan Wildlife Service. Dr. Jovanelly just concluded an appoint as a US Fulbright Specialist whereby allowing her to consult on world-wide water conservation, allocation, and quality issues. In the Spring of 2021, Dr. Jovanelly was recognized for her sustained record of distinguished contributions to the geosciences and was awarded the Geological Society of America Fellow. *Editors Note: Dr Jovanelly, will be the speaker at our October meeting with the topic: "Geological Wonders of Iceland".*

Atlanta Geological Society Newsletter

August 2021



PG Candidate Workshop

There will be no workshop during August. Our next sessions will be September 25, with the topic: Hydrogeology and Engineering Geology.

Subject: Hydrogeology and Engineering Geology

Speaker: Jim Kennedy, Ph.D., P.G.

Dr. Kennedy is the Georgia State Geologist and holds B.S. and M.S. degrees in physics and geophysical sciences from Georgia Tech and a Ph.D. in geology from Texas A&M where he did research on reclaimed lignite mines. As State Geologist, he has worked on the Coastal Sound Science Initiative to manage salt-water intrusion into the Upper Floridan aquifer, permitting of coastal groundwater supply wells, and the State Water Plan. He also has provided expert testimony at the Office of State Administrative Hearings in support of landfill, quarry, and water withdrawal permits issued by the Georgia Environmental Protection Division. Prior to joining the EPD, Dr. Kennedy worked as a consultant and conducted engineering geology, groundwater supply, and environmental remediation projects in various areas of the United States and Europe

Date: Saturday, September 25, 2021

Time: 10:00 am until 12:00 pm

Place: Online webinar hosted by Scott Harris of Fernbank Science Center – registration information below

This online workshop is open to current AGS members. Signing up for AGS Membership is easy and offers many benefits! For more information, go to our website at atlantageologicalsociety.org or visit us on Facebook.

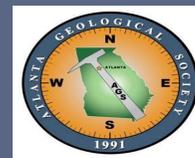
Please join us and feel free to forward this announcement to anyone that might be interested. For more information contact Abigail Knapp, abigail.s.knapp@gmail.com

New AGS Website Unveiled

The AGS website has been revised and updated. It features links to all AGS activities including meetings, field trips, PG workshops, and more. The site employs extensive use of online forms for registration and information requests. Links to geoscience programs in academia and other organizations, social networks, geoscience publications, and maps are also included. Special thanks to Howard Perlman, USGS retired, who volunteered his time to help revise the website. To access the new website, go to: <http://atlantageologicalsociety.org/>

Atlanta Geological Society Newsletter

August 2021



Events Calendar

August 17: Deadline to apply for Professional Geologist Licensing Exam

August 23, 11am: AEG Lecture, "Lessons Learned from the Baker Beach Landfill Removal Project" Speaker: William Godwin, PG, CEG, AEG National President

Zoom Meeting: <https://us06web.zoom.us/j/82617673641?pwd=US9BYmlzV0t5SWlNZnmttNjJEWUhlcz09>

August 31, 630pm: AGS Social/BBQ & Movie in Fernbank's Giant Screen Theater

August 31: GTEC Aug 31, 2021 UST Management and Compliance Assistance Seminar – Kennesaw. [Click here to register](#)

Sept. 17-18: Georgia Well Show, Marriott Riverfront Hotel Savannah, Ga. [Click here to register](#)

September 25, 10am: AGS PG Workshop. Speaker: Jim Kennedy. Topic: Hydrology and Engineering Geology

September 28, 645pm: AGS monthly meeting. Speaker: Scott Harris. Topic: Impacts Great and Small: The Role of Hypervelocity Collisions in Sculpting Earth's Geology.

October 1, 8am: Georgia Professional Licensing Board Geologist Exam, Macon, Ga.

October 5-6: AIPG - 9th Conference on: Innovative Environmental Assessment and Remediation Technology Kennesaw State University. To register on-line go to: <http://georgiaaipg.weebly.com/>

October 26, 645pm: AGS monthly meeting. Speaker: Tamie Jovanelly, Topic: Geological Wonders of Iceland

November 30, 645pm: AGS Monthly meeting. Christy Visaggi will introduce Lisa Duong and other students from Georgia State University who will talk about their research

April 7-8, 2022: Geological Society of America joint section meeting—North Central and Southeastern Sections, Cincinnati, OH. For more information:

https://www.geosociety.org/GSA/Events/Section_Meetings/GSA/Sections/nc/2022mtg/home.aspx

UGA Online Lecture Series (For link go to: <https://geology.uga.edu/events/Colloquium>)

August 27, 2021 - 4:10pm: Volcanology, Speaker: Arianna Soldati, (North Carolina State)

September 10, 2021 - 4:10pm: Coastal Processes, Speaker: Kelly Lazar, (Clemson University)

September 17, 2021 - 4:10pm: Hydrogeology, Speaker: Sarah Ledford, (Georgia State University)

September 24, 2021 - 4:10pm: Open Date

October 1 - 4:10pm: Igneous/Economic Geology, Speaker: Laura Bilenker, (Auburn University)

October 8, 2021 - 4:10pm: Structure / Tectonics, Speaker: Tim Diedesch, (Georgia Southern University)

October 22, 2021 - 4:10pm: Glaciology, Speaker: Billy Armstrong, (Appalachian State University)

November 12, 2021 - 4:10pm: Tectonic / Geomorphology, Speaker: Max Dahlquist, (Sewanee University)

The poster for Fossilmania 2021 has a dark, textured background with fossil tracks and a dinosaur skull. The word 'FOSSILMANIA' is written in large, white, bold letters across the center, with '2021' below it. The event details are listed below the title.

Tellus Science Museum
Saturday 21/August; 9AM – 1PM
In partnership with the
Paleontology Association of Georgia (PAG)

Registration required. Deadline to register: Monday 8.16
Tellus and PAG Members: \$15
Non-members: \$30
Registration includes museum admission, continental breakfast, symposium lectures, and lunch. Recommended for ages 8+ with a working knowledge of geology and paleontology.

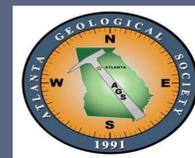
Speakers

Ashley Manning-Berg; University of Tennessee
Analysis of Preserved Microfossils in Silicified Stromatolites from NW Georgia

George Phillips, Curator of Paleontology @ Mississippi Museum of Natural Science
Chondrichthyans & Gerard R. Case: A brief bio of a Brooklyn boy and his passion for fossil sharks, rays, and chimaeras.

Burt Carter, Professor of Paleontology, Georgia Southwestern State University
The Role of Fossils in Unraveling the History of the Dougherty Plain in Georgia

Paul F. Huddleston; Principal Geologist III, Retired, Georgia Geological Survey
The Ocala Group: the largest marine transgression in the Coastal Plain's geologic record.



Fernbank Events

Giant Screen Movies are back!

Fernbank's Giant Screen Theater is OPEN daily through September 6, 2021. Now Playing:

- *Sea Lions: Life by a Whisker
- *Turtle Odyssey

Upcoming Events

- Dinosaur Birthday Bash, August 21, 10:00 AM – 1:00 PM
- Fernbank Forest Night Walk, August 22, 7:30 PM – 9:30 PM
- Fernbank Forest Night Walk, August 27, 7:30 PM – 9:30 PM
- Sea Monsters Event, September 25, 10:00 AM – 1:00 PM

New Exhibits at Fernbank

Habitat: **On View April 17 – August 29, 2021**

Explore the stories and science of habitats, and the plants, animals, and humans that call them home in this new outdoor exhibit. The elevated walkway into WildWoods leads guests through a tour of the natural world. Set against the backdrop of a thriving forest found just minutes from the heart of downtown Atlanta, this new exhibit invites guests to travel “through” habitats and biomes found around the globe and explore the importance of preserving these natural communities through large-scale sculptures of animals, nests, flowers and more, created in partnership with local artists.

Games in the Gallery: **On View May 8 – August 29, 2021**

Discover a new way to play in the great outdoors with oversized games and fun skill challenges. Try your hand at checkers—or try your feet at hopscotch. Challenge your friends to tic-tac-toe, chess and more. This special exhibit encourages active and imaginative play and is located in WildWoods.

Crocs: Ancient Predators in a Modern World: **On View June 5 – September 6, 2021**

Come nose to snout to some of the animal world's most intimidating and misunderstood creatures in this lively new special exhibit. More than just a toothy grin, crocodilians live rich and complex lives. Immerse yourself (safely) into the intriguing world of crocs and explore their evolutionary history, biology and behavior, and their precarious relationship to humans. Features live specimens!

Nature's Ninjas: **On View June 5 – September 6, 2021**

Did you know that chameleons do not change color for camouflage? Or, that some octopus can change not only the color, but even the texture of their skin to perfectly camouflage with their environment? Every species has evolved unique strategies to protect themselves from predators. Discover some of the animal kingdom's surprising and awe-inspiring methods of self-defense in this interactive, family-friendly exhibit featuring dozens of live animals with daily “meet and greet” opportunities.

Coming Soon! Antarctic Dinosaurs (On View October 9, 2021 – January 2, 2022) Embark on an adventure to uncover never-before-seen dinosaur fossils from one of the most isolated environments on Earth.



Fernbank Science Center Events

Fernbank Science Center and the
Jim Cherry Memorial Planetarium
present

The FSC At-Home Planetarium Show

Featuring
Timely Topics in the
Earth and Space Sciences

Friday Evenings
7:00 p.m. Eastern Time
(and available for replay in the video archives)
<https://www.facebook.com/fernbankcenter>
An At-Home Planetarium Production

Fernbank Science Center and the
Jim Cherry Memorial Planetarium
present

The PLANET-arium Show

Virtual Field Trip
through the Solar System

With Your Guide Planetary Geologist
R. Scott Harris

Saturdays at 1:00 p.m. or 8:00 p.m. ET
(please check weekly)
<https://www.facebook.com/fernbankcenter>
An At-Home Planetarium Production

Atlanta Geological Society Newsletter

August 2021



AGS 30
Atlanta Geological Society
30th year
(1991-2021)

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- Student: \$10
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