PRESIDENT’S MESSAGE

Happy Fall to all my fellow Geologists. I wanted to say thank you to all the recent support via donations and sponsorships. A little bit of funding goes a long way to cover our critical expenses. Also, I want to extend a heartfelt thank you to my friends on the FAPG Board that have been superb leaders in 2023 and dedicated to enhancing your practice of geology in Florida: Bill Aley, Kim Arnold, Joey McKinnon, Anne Murray and Natalie Kato. We have received phenomenal advice and support too from the PG “geologic titans” in Florida: Chuck Drake, Tom Herbert, Tom Scott, and Harley Means.

In September 2023 I had the honor of attending and representing Florida (FAPG) at the National American Institute of Professional Geologists 60th Annual Conference in Kentucky. I attended the annual executive committee / business meeting reporting to National what we have been doing on the State level in Florida, and sharing ideas on critical issues facing the practice of geology on an industry-wide level including the deficiency of and need for future geologists/graduates, student and young professional involvement in AIPG/FAPG, the need for CEUs, representation of geologists and geologic issues to State and Federal lawmakers, unifying with professional groups that share our vision (AEG, SME, AGI), and getting K-12 exposure to geosciences through nonprofit outreach programs so that we seed professionals for the future.

I attended the Awards Banquet recognizing key geologists in the organization and to build relationships with leaders in other States (see photo). I also was very fortunate to attend a couple great field trips exploring the massive Karst cave systems in Indiana and Kentucky. We have some of this terrain in Florida, but not nearly on the same magnitude! Maybe in a couple hundred million years and given some specific structural mechanisms, Florida will look like Kentucky (see photo)!

At the National business meeting, I was humbled to be nominated, voted, and appointed to the National Advisory Board of AIPG which places me on the Executive Committee (see photo). I will serve in this role in 2024. I intend to use this position to further represent to National what we Geologists in Florida do, need, and look forward to improving in the future. If you have any concerns regarding your license, industry concerns, geologic practice, ethics, or how AIPG can better serve you in your professional goals, please feel free to contact me directly so I can run it up the chain.

I hope you all have a Happy and safe Holiday season.

Your FAPG President,
Clint Noble, PG, PMP.
Awards banquet at the AIPG 60th Annual Conference

Marengo Cave in Indiana, stalactites and stalagmites around a “mirror lake” (water puddle)

Mammoth Cave System in Southern Kentucky.

Annual AIPG business meeting, representing Florida.
EDITOR’S MESSAGE

We continue to have a lot to share with our members and the entire Florida professional geologist community. This issue we continue telling the important story of where FAPG came from, thanks to Dr. Tom Herbert who was there in the very beginning! Thanks again to all who contributed to this issue and to this issue’s sponsors Johnson Well Screens, Ambient Technologies, and Pace Environmental. Please consider participating in the organization, we have many important roles to fill. Also, FAPG is seeking support through Corporate and member donations to cover incoming expenses and ongoing lobbying efforts that support our profession. Donations to the FAPG can be made at on the FAPG webpage linked by the QR code shown or here: fapg.org. Sincerely, Bill Aley, P.G

Contests:
EDITOR’S MESSAGE ................................................................. 3
BIG THANKS TO FAPG DONORS! ........................................... 4
FAPG ONLINE ........................................................................... 4
SUMMARY OF KEY 2023 FAPG ACTIVITIES: ......................... 4
FAPG ACCEPTING NOMINATIONS FOR SECRETARY POSITION 4
FAPG LOBBY DAY AT THE CAPITOL IN TALLAHASSEE ON DECEMBER 6, 2023 ...................................................... 4
TOM HERBERT AWARDED HERO OF THE INDUSTRY ............ 5
BACK IN THE DAY: ORIGINS OF FAPG ............................... 6
THE GEOSCIENCE HANDBOOK ............................................. 7
AIGP AND THE TASK GROUP ON GLOBAL GEOSCIENCE PROFESSIONALISM ......................................................... 8
VIRGINIA GEOLOGIST WORKGROUP ................................... 8
FLORIDA GEOLOGICAL SURVEY SPECIAL PUBLICATION 59 - FLORIDA GEOMORPHOLOGY ATLAS ......................................... 9
36TH ANNUAL FLBME REGIONAL MINING CONFERENCE ...... 10
STUDENT CHAPTER UPDATES! ............................................ 11
FAPG LEADERSHIP OPPORTUNITIES .................................. 11
SPONSORSHIP OPPORTUNITIES ......................................... 12
ADDITIONAL GEOLOGIC RESOURCES .............................. 12
THANK YOU TO OUR CORPORATE SPONSORS ................. 12

BOARD MEMBERS
Clint Noble, P.G. – President
Anne Murray, P.G., CPG – Past President
Kim Arnold, P.G. – Treasurer
EMPTY SEAT – Secretary
William Aley, P.G. – Editor
Robert “Joey” McKinnon, P.G. – Legislative Leader

BOARD ADVISORS
Tom Herbert, P.G., CPG
Guy “Harley” Means, P.G.
Chuck Drake, P.G., CPG
Wink Winkler, P.G.
Glenn McGraw, P.G.
Scott Sigler, P.G.

CONTACT FAPG
https://fapg.org/contact.php
editor@fapg.org

CONTACT FAPG
https://fapg.org/contact.php
editor@fapg.org
BIG THANKS TO FAPG DONORS!

The Florida Association of Professional Geologists, and the Florida geology community in general, sincerely thanks the following donors for their generous support of the organization.

- Mark Novakowsky
- David Glicksberg
- Robert Kirkner
- David Giddens
- Nicholas Brown
- Maryann and Guy Civil
- Johnson Well Screens

FAPG ONLINE

☒ All systems go! FAPG protects, enhances and promotes the geology profession in Florida. You can find FAPG online at the following:
Facebook - @FloridaGeology
X (formerly Twitter) - @FlaGeologists
Website - www.fapg.org
Hashtag - #FAPGRocks

FL Geologists Political Committee - contribute here!
FAPG Political Action Committee

SUMMARY OF KEY 2023 FAPG ACTIVITIES:

- Lobby Days at the Capital in Feb and April 2023 educating politicians on what geologists do and need for licensure.
- Networking for CEUs bill for PG license. Drafting of CEU bill language.
- Prevented legislation from being passed that would allow non-ASBOG licensed PGs license reciprocity in FL.
- Monthly virtual leadership meetings of FAPG Board and Advisors.
- Social media postings.
- Sponsoring and Moderating SME Florida Conference – Geology Track. Selection and presentation of Hero of Industry Award (Tom Herbert). Clint Noble and Wink Winkler of FAPG are on the conference committee.
- Appointing a hydrogeologist to the Palm Beach County Groundwater and Natural Resource Protection Board.
- Aligning legislative strategy and meetings, communications for next session with our Lobbyist, Natalie Kato. Grass-roots strategy to protect and promote what geologists do in Florida.
- Protection of dissolution of license by communication of negative bills to politicians through our lobbyist.
- Teaming up with Landscape Architects and FL Groundwater Association (drillers) to tackle mutually beneficial legislation.
- Working with a new Florida PFAS coalition to have PG weigh in on PFAS contamination issues affecting the State.
- Preparation and distribution of our Newsletter.
- Obtaining Newsletter sponsors.
- Transition of Treasurer role to Kim Arnold.
- Updating / consolidation of our bank accounts.
- Obtaining donors for our Political Action Committee, registered with the State of Florida. We use this funding in specific ways to gain access/influence to lawmakers that support our practice.
- Working with the Board of Professional Geologists to secure additional appointees to their Board to keep the Board functioning.
- Idle Student Chapters – post-covid, most of our student chapters at FL Universities with Geology programs have gone idle (FSU, USF, FAU). We are seeking leaders to help these groups get re-invigorated.

FAPG ACCEPTING NOMINATIONS FOR SECRETARY POSITION

We have one Board position open for the Secretary position. Please consider submitting a nomination. It is a great opportunity to give back to your profession and boost your leadership potential. We are accepting nominations thru January 1, 2024. Please submit a resume to noblecc@cdmsmith.com

FAPG LOBBY DAY AT THE CAPITOL IN TALLAHASSEE ON DECEMBER 6, 2023

On December 6, 2023 the geologists are descending upon lawmakers in Tallahassee! Join the fun! Under the leadership of Joey McKinnon (PG) and our outstanding lobbyist, Natalie Kato, we will be taking an inside tour of the capitol in a series of short meetings with legislators, including Senators, to share/educate on the importance of the practice of Geology in their State and what we do, garnering support for our consideration in future legislation. Please contact Joey McKinnon at 843-364-4403 or l2g.joey@gmail.com if you are interested in attending/contributing to this important day that will help guide our future in Florida.
Johnson Screens

A brand of Aqseptence Group

Johnson Screens Water Well Solutions

Our products have been at the heart of water wells for over 100 years. We are recognized as the premier brand in multiple categories: stainless steel and PVC Vee-Wire® screens, environmental monitoring screens, casings, drop pipes, well treatment chemicals, fittings, and a variety of accessories that are essential to building and maintaining an efficient water well. Having published the Groundwater and Wells book series, Johnson Screens is acknowledged as a technical expert in the water well industry for anyone who designs, drills, or maintains water wells.

Johnson Screens remains the first and only company to be certified by NSF to NSF/ANSI/CAN 61 standards for stainless steel water well screens, all such screens being manufactured right here in the USA. In addition to our screens, our well-cleaning chemical solutions have also achieved NSF 60 certification from NSF for use in potable water wells and other water filtering facilities.

Our most recent addition to our family of well treatment chemicals is Chlor-Safe Nu-Well® 420, a safe and effective alternative to traditional chlorine (bleach) for disinfecting water wells.

Chlor-Safe was developed to dissolve faster than Sterilene™ and other chlorine products, so it activates sooner when disinfecting wells and removing bacteria or other contaminating organisms such as coliform, iron bacteria, E. coli, and other bacteria. Additionally, it can also be used to treat near wellbore damage and reduce congestion caused by clays or residual drilling mud. All the user needs to do is add Chlor-Safe to a container of water at the surface before disbursing to the entire well, ensuring maximum cleaning effectiveness.

Chlor-Safe is available now through our outstanding network of water well distributors!

Website:
johnsonscreens.com

Email:
waterwells.us@johnsonscreens.com

Phone:
+1 800 VEE WIRE
TOM HERBERT AWARDED HERO OF THE INDUSTRY

Tom Herbert was awarded the 2023 FAPG/AIPG Hero of the Industry at the 36th Annual Florida Regional Mining Conference. Wink Winkler presented the award on October 12 at the Trinkle Center at Hillsborough Community College in Plant City, Florida. Tom participated via Zoom from Tallahassee.

The award this year is long overdue and goes to an individual who has been a leader in the Florida Mining Industry and a promoter of the geologic profession in Florida for several decades. Tom is a licensed professional geologist in Florida (PG # 5) and eight other states. He earned B.S. and M.S. degrees in Geology and a Ph.D. in Resource Development – all from Michigan State University.

Tom Herbert is Vice President for Resource Development at Lampl Herbert Consultants in Tallahassee, a firm Tom co-founded in 1978.

Tom’s specializations in firm include:
- Mining Exploration and Project Due Diligence
- Resource Development Evaluation
- Oil and Gas Exploration and Production
- Solid Waste Disposal

Tom has more than 50 years of field experience in all phases of geology, including mining, mineral evaluations, petroleum exploration, hydrogeology, water resource management, coastal geomorphology, and solid waste disposal. His extensive client base includes mining companies, state and local government agencies, private landowners, petroleum companies and financial institutions.

Tom’s professional affiliations and assignments include:
- Member of the AIPG and Certified Professional Geologist for over 50 years
- Member European Federation of Geologists
- President: Florida Chapter, AIPG (1984-1986)
- Founding Member and first President of the FAPG (1996-1998)
- Member, Geological Society of America
- Member, Society of Mining, Metallurgy, and Exploration
- Galey Award in 2018 for National Public Service Award from the AIPG

Many consider Tom to be the father of geologic licensure in Florida. There was a clear need for licensure and Tom's efforts resulted in a draft bill and final approval by the Florida legislature. Licensure has
contributed to improving the stature of the geologic profession and advanced the quality of geologic practice in Florida.

Tom was appointed to the first Board of Professional Geology by Governor Bob Martinez. He became the first chair in 1987 and remained an influential member of the Florida Board of Professional Geologists through 1995. His leadership was instrumental in establishing the rigor of our profession and our professional culture in Florida.

Sam Upchurch summed it up by saying:

“Few people have contributed as much to effective and sustainable exploitation of Florida’s natural resources, especially with respect to petroleum and aggregates. I am proud to be his friend and enjoy our many phone calls about random geology subjects. Congratulations, Tom, on a job well done!”

**BACK IN THE DAY: ORIGINS OF FAPG**

By: Tom Herbert, PhD P.G., No. 5, Florida

Back in the Day
Thomas A. Herbert, PhD
Florida PG #5
CPG #2551

One day last month I received a small gift box from Colorado that included my 50-year pin for AIPG, and it got me thinking about the situation where I felt the need to be a professional. You will notice that number CPG 2551 is one of the lower numbers still practicing.

I was working in Michigan for the Highway Department studying glacial gravels and hating the wet slush of winter and even with my interest in glaciology the winters were continuing gray depression. I had some golfing buddy contacts in Florida that encouraged me to visit Tallahassee and see the lay of the land. I soon realized that the land was flat but the lack of icy slush more than made up for the topography. I made a few calls and scheduled a meeting to talk with Bud Hendry, Assistant State Geologist at the Florida Bureau of Geology (BOG), now the Florida Geological Survey (FGS), and to meet up with Bobby Timmons who I had met in 1970 at the 6th Forum on Industrial Minerals in Ann Arbor. The meeting was “burned in my brain” for the significance in my professional career.

The meeting in mid-February of 1973, was held in the brand new at the time Larson Building just south of the Capitol in the office suite of Robert Orion “Bob” Vernon, the State Geologist. Dr. Vernon was an interesting and very forceful individual.

Dr. Vernon was one of the individuals who helped organize AIPG in 1964 as did Bob Timmons. He was in his mid-60s and had been in an administrative role as the State Geologist for a long time under the State Board of Conservation and the new Department of Natural Resources. The Florida Bureau of Geology then was a stand-alone organization that was “bolted on” to the DNR for administrative purposes but the geology team ran its own show like many state surveys of the time.

Dr. Vernon ran the show with a strong hand over geology and water resources. The water management districts had yet to be rolled out in full form in 1973 but Vernon ran the show. I got that picture very quickly with his comments and the team he assembled to meet the 29-year-old kid from Michigan. The meeting attendees included Bud Hendry and Bob Timmons, Jack Woodard, Harbans Puri, Woodie Oglesby and about five other folks who made geoscience careers in Florida. From this intake meeting forward, I worked with many individuals until they retired.
I was introduced to the group and talked rocks for a few minutes when Dr. Vernon looked at me with his intense glare and said ... “are you a CPG?” To which I answered “huh”. His follow up comment was “you won’t work in Florida without the CPG credential” 

Bobby Timmons took me aside and gave me the information on who to call in Denver and what information I would need to become a CPG. I returned to Michigan and began pulling letters of recommendation, transcripts, and work experience together. For those of you who have gone the PG route the process was about the same. I was complete and by mid-July 1973, I received the certification document.

In the fall of 1973, I moved to Florida and was soon hired by the Florida House of Representative to be the staff director of the Natural Resources Committee. My CPG certificate was on the wall behind my desk in the Capitol next to my Michigan State University diplomas. Our committee handled all the legislation involving water, oil and gas, mining and coastal zone issues and the funding to run the programs. I vividly remember the first time in April 1974, when Dr. Vernon walked into my office to lobby me for program dollars. He did not remember my life-changing encounter 14 months earlier. I remember him lifting his eyes to my “power wall” and seeing the CPG 2551 certificate nicely framed, he smiled, and he began to chat. I promised him that I would ensure that geology knowledge would be imparted to the legislators. Dr. Vernon passed the next year but his many publications and policy decisions are lasting.

In the 1975 Legislative Session the Natural Resources Committee rolled out the first bill to create professional geology licensing. In 1984 the Florida Bureau of Geology was rebranded as the Florida Geological Survey (FGS).

With the help of Bobby Timmons, Richard Fountain, and many other geologists working primarily in phosphate at the time we finally achieved licensure in 1987. The rest is history as the profession has moved from water, to mining, to petroleum contamination, to solid waste to coastal resiliency over the years. We keep working.

For more on Robert Orion Vernon see: https://rock.geosociety.org/net/documents/gsa/memorials/v06/Vernon-RO.pdf

THE GEOSCIENCE HANDBOOK

The American Geosciences Institute (AGI) is excited to announce the availability of The Geoscience Handbook in print, as well as additional resources to assist educators, students, and the wider geoscience community.

Reprinted by popular demand, The Geoscience Handbook is now available exclusively through the AGI Online Store and is discounted 10% off retail price through October 31, 2023. Learn more about this comprehensive resource, available in both a full-color spiral-bound print format and a digital edition.

Cover of now in print Geoscience Handbook
The definitive Glossary of Geology is now available exclusively as an annual web subscription. The Glossary provides students, educators, and professionals access to the precise definitions of geoscience terms. Personal web subscriptions are available here. The Glossary is also available to institutions via IP access for an annual fee. Email jr@americangeosciences.org for details.

This year’s Earth Science Week 2023 was October 8-14, which celebrated the theme "Geoscience Innovating for Earth and People." Order your Earth Science Week Toolkit here.

These and many more informative publications are available in the AGI Online Store at https://geosciencestore.org/.

AIPG AND THE TASK GROUP ON GLOBAL GEOSCIENCE PROFESSIONALISM
Professionalism Group (TGGGP)
Thomas A. Herbert, PhD
Florida PG #5
CPG #2551

AIPG is an active and significant player in the TGGGP group as geoscientists attempt to create formal and integrated review protocols for geologic investigations. Every day we see the media pushing electric vehicles and battery technology which means more mining and investment around the world. The investments need to be vetted under protocols such as the SME Standards and Guidelines for Valuation of Mineral properties. There are many countries with similar regulations including South Africa, Canada, Australia, the European Federation of Geologists, and the US. The direction of GGPG is to provide uniformity and reciprocity across the globe. Under the plan, a CPG from the United States could bring experience to the search for critical minerals in many countries that lack geology licensure. Investor countries will be assured the qualified persons are reviewing the resources.

I was appointed by Aaron Johnson, AIPG director, to help with this task. My first task was a Zoom meeting that crossed about ten time zones to discuss the steps ahead. It was fun. If any Florida geoscientists would like to become involved and canvass the globe, we need some help. I can be reached at (850) 443-4262 for more details.

VIRGINIA GEOLOGIST WORKGROUP

The certification of Geologists is under the threat of elimination in Virginia by the Governor’s policy on occupational regulation. During the 2023 General Assembly, a Bill was introduced that called for the elimination of the Certification of Geologists in Virginia. This created a ground swell of support for maintaining Virginia’s certification program and the Bill was defeated for the calendar year (Passed by Indefinitely) due to a successful letter campaign. Seizing on the support garnered during the 2023 General Assembly, a small group of Geologists (The Virginia Geologist Workgroup) along with the Association of Environmental and Engineering Geologists (AEG) have banded together to pursue legislation that strengthens the certification and practice of geology within the Commonwealth.
Pace® delivers the highest standard of testing and scientific services in the market. We offer the most advanced solutions in the industry, backed by truly transparent data, a highly trained team, and the service and support that comes from four decades of experience.

pacelabs.com
Megan Lantry - Sales Manager
Cell 813.601.9063 | Lab 813.881.9401
Geomorphology is the study of landforms and how the evolution of these features has shaped the earth’s surface. It involves identifying, describing, and classifying landforms (particularly, the relationship of their geology and topography to the geologic processes that shape the landscape). Florida’s near-surface geology primarily consists of limestone overlain by siliciclastic (non-carbonate) sediments. These sediments form the surficial cover that has been modified by coastal, aeolian, fluvial and karst processes to create the distinctive ridges, swales, dunes, marine terraces, marine escarpments, sinkholes, springs, karst escarpments and other karst landforms common to Florida.

Years of Florida Geological Survey (FGS) geologists’ experience showed the need for a detailed discussion of the State’s geomorphology. Only cursory discussions, maps and details were available from previous geomorphology investigations in Florida. Beginning in the early 2000s, under State Geologist Walt Schmidt, Tom Scott began a detailed investigation of the State’s landforms. Christopher Williams continued the research under State Geologist Jon Arthur. Christopher Williams, Tom Scott, and Sam Upchurch completed the project and published the results online in 2022 under State Geologist Harley Means.

The importance of geomorphologic mapping in Florida is to ascertain how the geology and geologic processes have shaped the state’s unique landscape. Special Publication 59, “Florida Geomorphology Atlas,” is the first publication with a systematic listing and description of statewide, regionally classified landforms whose boundaries have been discretely and rigorously defined. Florida’s geomorphic features are divided into districts and further subdivided into provinces. Districts are large areas where landforms are genetically related. Provinces contain landforms that are even more genetically similar than at the district level. Ten districts are recognized in Florida. The districts are divided into 71 provinces. The districts contain from as few as two provinces in the Apalachicola Delta District and Southern Pine Hills District to as many as 17 provinces in the Ocala Karst District.

Districts include broader sets of geomorphic landforms and features that extend across the state line into Alabama and Georgia. For this investigation, the names for the features in Georgia (Clark and Zisa, 1976) and Alabama (Drahovzal, 1968) are employed for the sake of consistency across state lines. Names for districts that extend across the state line include the Southern Pine Hills District, Dougherty Plain District (changed to Dougherty Karst District in Florida due to the change in landform character toward the southern boundary in the northern Florida Panhandle), Tifton Upland District, Okefenokee Basin District, and Barrier Island Sequence District. The extension of these features into Florida is discussed in more detail in this investigation’s district and province discussions.

Provinces are subdivisions of districts. For example, the Brooksville Ridge Province is within the Ocala Karst District. It is a distinctive karstic ridge that rises above karst plains to the east and west. Each of the plains is characterized by relatively low elevations, numerous sinkholes, springs, and other karst landforms, and are separated from each other by major streams or other geomorphic boundaries. Each province is topographically distinctive and, for the most part, separated from neighboring provinces by changes in elevation, drainage ways, and origins of common landforms.

The defined districts and provinces include areas that are correlated to near-surface geology that has influenced landform formation and notable landform
and topographic distinctions at district and province boundaries. The geologic processes that have influenced landform development are also discussed. The Florida Geomorphology Atlas allows readers to learn about the distinct landforms that are found throughout Florida and ascertain the landform variability and underlying geology unique to each geomorphic district and province. Special Publication 59 is not intended for site-specific applications, but to paint a local and regional picture of Florida’s landforms and related geology and geologic processes that have shaped, and continue to shape, Florida as we know it today.

The Florida Geological Survey’s Special Publication 59, “Florida Geomorphology Atlas,” is a digital publication with a web page and a WebApp interactive map that enables users to browse and search areas of interest and link to specific, descriptive text for a selected district or province. The text can also be read cover-to-cover to gain statewide knowledge. There are many types of base maps one can use beneath the data to gain different perspectives. An elevation profile tool helps visualize topographic change along a topographic profile across an area. The GIS data for the districts and provinces are downloadable from the website. Also, there is a “Tips and Tricks” document to aid in using the WebApp.

https://experience.arcgis.com/experience/3fc273fccab8499083960daf7f1207a7/?draft=true

Contact: Christopher P. Williams, Ph.D., P.G.

Clark, W.Z., Jr., and Zisa, A.C., 1976, Physiographic map of Georgia: Georgia Department of Natural Resources, the Geologic and Water Resources Division, scale 1:2,000,000, 1 sheet.


36TH ANNUAL FLSME REGIONAL MINING CONFERENCE

Greetings FAPG members, this year’s Regional Mining Conference was held October 11-12 in Plant City. FAPG Board Advisor, Charles Drake chaired/moderated the Geology & Mine Planning session as a representative of AIPG-FAPG at the conference. The conference was organized by the Florida Section of the Society for Mining, Metallurgy & Exploration (FLSME), with the support from the AIChE, AFPC and FAPG-AIPG.
Presenters were from mining companies, geologists, engineers, chemists, surveyors, MSHA trainers and regulatory agencies.

The Geology and Mine Planning presentations were as follows:

- **UAV Systems for 3D Mapping of GPS-Denied Underground Mines** by Dr. Richard Bishop, Professor of Practice, Mining Engineering at Virginia Tech.
- **A Fully 3-Dimensional Integrated Groundwater Model for MFL & Water Resource Development Project Evaluations** by Fatih Gordu, Chief Water Resource Engineer at SJRWMD.
- **Update on the Evolve Central Appalachia REE & CM Project** by Dr. Richard Bishop, Professor of Practice, Mining Engineering at Virginia Tech.
- **Lakeland Northeast Wellfield History and Unique Geology** by Charles Drake, VP RSI Division / Hydrogeologist at Tetratech.

The conference is a key event for mining industry representatives and associated service firms to gain important industry knowledge and exchange ideas. Presentations were given in these subject areas:

mineral processing, chemical processing, safety, environmental issues, reclamation, mining, geology regulatory and permitting, analytical, digitization, AI and process control.

As reported earlier in this newsletter, Dr. Thomas Herbert was presented with the AIPG-FAPG Hero of the Industry award at the conference.

For more info visit the website:
[36th Annual FLSME Regional Mining Conference | FLSME](#)
SPONSORSHIP OPPORTUNITIES

The FAPG’s mission is to protect, enhance, and promote the geology profession in the State of Florida. We accomplish our mission by educating and lobbying state legislators on issues affecting geologists in Florida. The last several years have required extra lobbying efforts due to ongoing efforts to deregulate the practice of Professional Geology, along with many other professions. FAPG is seeking support through Corporate Donations to cover expenses and future lobbying and outreach efforts.

Please consider Sponsoring FAPG! Get your company’s name and logo in the newsletter, support our legislative efforts, and support our student scholarship opportunities! Sponsor logos and ads will be posted on our website (www.fapg.org) and as ads included in emails and all newsletters.

Quarter Page ($200/year)
Half Page ($500/year)
Full Page ($1000/year)

Contact FAPG for more information: editor@fapg.org

ADDITIONAL GEOLOGIC RESOURCES

American Geosciences Institute (AGI)
https://www.americangeosciences.org/
American Geophysical Union (AGU)
https://www.agu.org/
American Institute of Professional Geologists (AIPG)
aipg.org
Association of Environmental and Engineering Geologists (AEG)
https://www.aegweb.org/
Southeastern Geological Society (SEGS)
https://segs.org/
Florida Geologic Survey (FGS) https://floridadep.gov/fgs
Florida Museum of Natural History
https://www.floridamuseum.ufl.edu/
Florida Society of Mining Engineers (FLSME)
http://flsme.org/
National Association of State Boards of Geology (ASBOG)
https://www.asbog.org/

THANK YOU TO OUR CORPORATE SPONSORS

Pace® delivers the highest standard of testing and scientific services in the market. We offer the most advanced solutions in the industry, backed by truly transparent data, a highly trained team, and the service and support that comes from four decades of experience.

pacelabs.com

Megan Lantry
Sales Manager

Cell 813.601.9063 | Lab 813.881.9401 |