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September 2019 Newsletter

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AIPG Ohio Section Fall Meeting

Evaluating AI to Assist with Predictive Landslide Susceptibility Modeling for Well Pad and Pipeline Planning and Design

Date: Thursday, September 26, 2019

Location: The Boulder Creek Golf Club and Event Center
9700 Page Rd, Streetsboro, Ohio

Schedule: Social hour begins at 5:00 pm followed by Dinner at 6:00 and Presentation at 7:00

Event Registration Payment: <https://www.aipg-ohio.org/eventdetails.php>

See Page 5 for event details

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Message from the President

Timothy E. Brown, CPG-11637

Fellow AIPG Members,

I hope you have had an enjoyable summer and are ready for cooler weather. The Executive Committee is back in session following the summer break and planning for the Ohio Section's Fall Meeting later this month and the Annual Meeting in November. President-Elect Robert Andrews and I will be attending the AIPG National Conference to be held in Burlington, Vermont from September 14 through 17 as representatives of the Section. Past-President Colin Flaherty will be making the trip as a member of the National Advisory Board. Attending the National Conference can be an enlightening experience regarding the goals and mission of the AIPG organization.

Since the last *Newsletter* the Ohio Section put on its First Annual Charity Golf Scramble at Blackhawk Golf Club on June 14, 2019. The 23 golfers who participated in the event enjoyed perfect weather and by all accounts had a great experience. The event included a catered City Barbecue dinner and many raffle prizes. The event was a success as over \$1,800 was raised for Ohio Section student chapters. One of the next tasks of the Executive Committee will be determining how to use these funds. Potential ideas include supplementing student chapter activities and establishing an Ohio Section scholarship. An article detailing the golf outing is provided later in this Newsletter. The Ohio Section looks forward to putting on another charity golf outing in 2020.

The Section is excited to be back in northeast Ohio for the Fall Meeting and Dinner Presentation to be held on September 26 at the Boulder Creek Golf Club & Event Center in Streetsboro. The speaker will be Thomas Jordan, a geophysicist with KEY Environmental, Inc. and an adjunct professor at Youngstown State University who will present *Evaluating AI to Assist with Predictive Landslide Susceptibility Modeling for Well Pad and Pipeline Planning and Design*. Please see the meeting announcement later in this *Newsletter* for meeting details. The Ohio Section is also looking forward to the Annual Meeting which will be held at La Scala Italian Bistro in Dublin on November 21. The feature presenter will be new Ohio Division of Geological Survey Chief Mike Angle. The topic of the talk has not been announced as of the publishing of this *Newsletter*.

I would like to conclude this message with a request to consider increasing your involvement in the Ohio Section by volunteering. Looking ahead to 2020, there may be several open positions on the Executive Committee, including President-Elect. Recently the Executive Committee lost Member-at-Large Ben White who took a new position in Pennsylvania. Involvement is quite rewarding and is a great way to give back to the geologic profession. If you have any questions or would like any additional information about the AIPG Ohio Section, please don't hesitate to reach out to me or one of the other Executive Committee members. For details on future meetings and field trips, please follow the adventures of the Ohio Section on our website. ●

Tim Brown, CPG-11637
2019 AIPG Ohio Section President

Calendar of Upcoming Events

September 26, 2019	AIPG Ohio Section Fall 2019 Meeting and Dinner Presentation - Boulder Creek Golf Club, 9700 Page Rd, Streetsboro, Ohio – <i>Evaluating AI to Assist with Predictive Landslide Susceptibility Modeling for Well Pad and Pipeline Planning and Design</i> , by Thomas E. Jordon, PhD, Geophysicist with KEY Environmental, Inc. and adjunct professor at Youngstown State University, www.aipg-ohio.org
November 21, 2019	AIPG Ohio Section Annual Meeting and Dinner Presentation – La Scala Italian Bistro, 4199 West Dublin-Granville Road, Dublin – guest speaker will be Mr. Mike Angle, Ohio Geological Survey Director and State Geologist www.aipg-ohio.org .



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Ohio Section 2019 Fall Meeting and Dinner Presentation

Feature Presentation: Evaluating AI to Assist with Predictive Landslide Susceptibility Modeling for Well Pad and Pipeline Planning Design

Presented By: Thomas E. Jordon, PhD, Geophysicist with Key Environmental, Inc. and Adjunct Professor, Youngstown State University

The Ohio Section of AIPG is pleased to host Thomas E. Jordon, PhD at the Section's Fall Meeting and Dinner presentation, which will take place on Thursday, September 26, 2019 at the Boulder Creek Golf Club & Event Center, 9700 Page Road, Streetsboro, Ohio 44241. Mr. Jordon will be presenting: Evaluating AI to Assist with Predictive Landslide Susceptibility Modeling for Well Pad and Pipeline Planning Design.

The event begins at 5:00 pm with social hour, followed by dinner at 6:00, and the feature presentation at 7:00. Please preregister and submit payment for the event via PayPal through the AIPG Ohio Section website <https://www.aipg-ohio.org/payment.php>. Please RSVP as soon as possible and pay for the event.



Evaluating AI to Assist with Predictive Landslide Susceptibility Modeling for Well Pad and Pipeline Planning Design

by Thomas E. Jordon, PhD

ABSTRACT

Thomas E. Jordon ^{1, 2}

¹Youngstown State University, Youngstown, Ohio, tejordan@ysu.edu,

² Key Environmental, Inc., Carnegie, Pennsylvania, tjordan@keyenvir.com.

A predictive landslide susceptibility model is being developed to streamline and focus the current approach commonly used to address planning and design data needs at proposed well pad sites and along the projected limit of disturbance for pipeline construction projects. This predictive model uses a weighted indicator parameter approach to evaluate landslide susceptibility at targeted areas. Artificial intelligence (AI) methods are being considered to determine region specific weights for each indicator parameter within the model with the goal of converging on a landslide susceptibility index value. The goal of this project is to provide a process where a landslide susceptibility index value can be determined from any study area where shallow test boring data from the National Coal Resources Database System (NCRDS) is available.

Lithologic and stratigraphic data queried from the NCRDS is a primary component of this model. Data from the NCRDS consists of thousands of test borings compiled by the US Geological Survey for the purpose of evaluating coal reserves in the United States. A unique computer based work flow is being refined at Youngstown State University (YSU) to screen, compile, and extract information from this enormous database that is of specific interest to our effort. The output from YSU's work flow application is then imported into a three-dimensional (3-D) gridding software. Data from published structure contour maps are then used to bias the gridding algorithm for the creation of a 3-D model that is interfaced with geographical information system (GIS) software.

Other critical indicator parameters considered for this model include proximity to existing landslides as mapped by others, slope, slope aspect, presence of over-dips, and land cover. Our preliminary research indicates that the available landslide delineation efforts for our current area of interest are based on published studies completed prior to the development high resolution remote sensing methods such as topographic mapping using LiDAR or high-resolution aerial photography. Therefore, a component of this study also involves evaluating the feasibility of using a machine learning approach to detect previously undocumented landslides through examination of LiDAR and high resolution aerial photography.

The output from the 3-D lithologic model was integrated with the other indicator parameter data using GIS software. Information provided by industry is currently being used as a basis for the development of an AI neural network to efficiently converge on a defensible region specific indicator parameter weighting process. This research is currently focused on southwestern Pennsylvania, the northern panhandle of West Virginia, and southeastern Ohio but our methods can be applied anywhere test boring data from the NCRDS is available.

PRESENTER

Dr. Tom Jordan has over 30 years of experience conducting and managing the geological, hydrogeological, and geophysical components of environmental, engineering, archeological, and resource exploration projects. He solves complex geologic problems by drawing on his experience gained from a career working on diverse technical issues for project sites located in 32 states, the Territory of Guam, the Province of Ontario, and the Republic of China.



Dr. Jordan has also established close ties with academia by maintaining a part-time teaching & research position at Youngstown State University (YSU), Youngstown, Ohio and by publishing chapters in books, peer reviewed journals, and expanded abstracts for meetings and conferences of technical societies. Dr. Jordan teaches various undergraduate classes at YSU including geophysical well log analysis, GIS applications to geology, structural geology, and geology for engineers. Dr. Jordan is a member of the Board of Directors for the Pennsylvania Council of Professional Geologists (PCPG) and also serves as an instructor where he teaches the geophysics and seismology component of a PCPG review course for professionals preparing for the ASBOG licensing examination.



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Ohio Section 2019 Spring Meeting Recap

Feature Presentation: Savor the Cryosphere

Presented By: Dr. Patrick Burkhart, Slippery Rock University

Contributing author Robert Andrews, CPG-11975

The Ohio Section's Spring 2019 meeting and dinner presentation was held on April 18th at La Scala Italian Bistro, in Dublin, Ohio. Guests enjoyed a social hour followed by an excellent dinner. The event was well attended by a mixture of professionals and students, including representatives from The Ohio State University and Wright State University student chapters. The event was sponsored by ALS Laboratories, Buckeye Elm Contracting, Pace Analytical Services, and Ohio Soil Recycling.



Patrick Burkhart giving his presentation

Prior to the meal, 2019 AIPG Ohio Section President Tim Brown welcomed attendees and gave an update on previous and upcoming Ohio Section events for the year, including our 1st Annual Charity Golf Scramble in June.

Following dinner, Tim Brown introduced the evening's guest speaker, Dr. Patrick Burkhart, professor at Slippery Rock University. Patrick's talk was entitled Savor the Cryosphere.

Patrick began by saying that while watching the news in 2014, he heard a politician say climate change was pseudoscience. Upon hearing this, he resolved to do something about the disconnect between knowledge and perception. He then began calibrating with researchers at the Ohio State's Byrd Polar Climate Research Center and Penn State's Ice and Climate Exploration research group to understand the science of climate change. Patrick presented spectacular photos of changing alpine geomorphology and field measurements (pH, temperature, seismic, LiDAR, and flow data) collected from Argentina. Patrick concluded his talk by saying that satellite measurements of ice mass and ground-based observations indicate that the Earth is losing ice. In addition, related studies show that warming temperatures are triggering a dramatic response in the world's ice cover.



Following the presentation, Tim Brown presented Patrick with a plaque bearing the Ohio State Fossil, the *Isotelus maximus*, as a token of appreciation. The Section would also like to thank all those in attendance,

Patrick Burkhart with the plaque bearing Ohio state fossil, the *Isotelus maximus*, which he received as token of appreciation for his presentation.

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AIPG Ohio Section First Annual Charity Golf Scramble

By: **Timothy E. Brown, CPG-11637**

The weather was perfect for the Ohio Section's first charity golf scramble to raise money for Ohio Section student chapters, held at Blackhawk Golf Club in Galena, Ohio on June 14, 2019. The event included a prize for first place as well as awards for the longest drive and closest to the pin. Following the conclusion of golfing activities, attendees enjoyed a catered dinner by City Barbecue, and an abundance of raffle prizes were given out to lucky ticket holders. The event was attended by 23 golfers comprising six teams. By all accounts, participants had a great experience and enjoyed the golf course. The event was an incredible success, as over \$1,800 was raised for Ohio student chapters.

The Section is appreciative of the generous sponsors that supported the event. Team sponsors included Alpha Analytical and Buckeye Elm. Hole sponsors included EDR, Envirocore, GT Environmental, Hepaco, Hull & Associates, Pace Analytical, and SME. Alpha Analytical, Envirocore, GT Environmental, and US Ecology were dinner sponsors. Awards sponsors included ALS and Land Science. Raffle items were donated by the Andrew Musilli Insurance Agency, Alpha Analytical, Homage Clothing, Hull & Associates, North High Brewing Company, and Seventh Son Brewing.



First place was claimed by Team Buckeye Elm, with a winning score of 58. The Buckeye Elm team consisted of Joel Miller, Mitch Sealock, and Clint Brown.

The first annual AIPG Ohio Section Charity Golf Scramble was won by Team Buckeye Elm, consisting from left to right of Mitch Sealock, Joel Miller, and Clint Brown. The Buckeye Elm team shot a blistering 58 on the Blackhawk course.

Team Roth came in second place in the event, six strokes off the pace set by Buckeye Elm. The team consisted of Dave Holey, Tim Morrow, Andy Musilli, and Robin Roth.



Team Roth was edged out for second place in the charity golf outing. Team members from left to right included Robin Roth, Andy Musilli, Tim Morrow, and Dave Holey. Andy Musilli also won the closest to the pin prize.

Third place was claimed by Team ODNR, which shot a 67. The team was comprised of John Bittle, Curtis Coe, Scot Kirk, and Jim Raab. Team Alpha Analytical and Team Flaherty tied for fourth place with a 68. Members of Team Alpha Analytical included Ben Dressmen, Trevor Litweiler, Steve Miller and Bennett Thayer. Team Flaherty consisted of Colin Flaherty, Tom Jenkins, Josh McKinney, and Brent Smith. Finishing at the bottom of

the leaderboard was Team Hull & Associates with a 73. Team Hull members included Steve Gross, Dave Mustafaga, Doug Stuart, and John Szymanski. The longest drive winner was Colin Flaherty, while the prize for being closest to the pin was claimed by Andy Musilli.



2019 AIPG OHIO SECTION CHARITY GOLF SCRAMBLE RESULTS	
TEAM	SCORE
BUCKEYE ELM	58
TEAM ROTH	64
TEAM ODNR	67
TEAM ALPHA ANALYTICAL	68
TEAM FLAHERTY	68
TEAM HULL & ASSOCIATES	73

Team ODNR claimed third place in the event. Team members from left to right included Scott Kirk, Jim Raab, John Bittle, and Curtis Coe.



ABOVE LEFT – Team Alpha Analytical included from left to right, Bennett Thayer, Steve Miller, Ben Dressmen, and Trevor Litwiler.

ABOVE RIGHT – Team Flaherty was comprised, from left to right, of Josh McKinney, Brent Smith, Tom Jenkins, and Colin Flaherty.

Coordination of the event was a learning experience for the Ohio Section. A special golf outing committee was organized early in 2019 and met several times between January and June. Committee members Ben White, Alex Conley, Robert Andrews, and Tim Brown were joined by Joel Miller of Ohio Section sponsor Buckeye Elm during these meetings. Significant tasks included procuring a host golf course and establishing a date, determining sponsor categories and soliciting sponsors, coordinating the production of sponsor signs, arrangement of a catered dinner, and obtaining items for the raffle. The Blackhawk Golf Club staff was incredibly helpful during the entire process and made everything run smoothly on the day of the event.



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Team Hull & Associates included, from left to right, John Szymanski, Dave Mustafaga, Doug Stuart, and Steve Gross.




Group photo of all participants prior to shotgun start!




LEFT – Participants enjoyed a dinner catered by City Barbecue after finishing golf activities.

ABOVE – View of the raffle prize table. Nine raffle prize packages were available for winners. Two cases of wine were donated by Alpha Analytical as well as a bottle of wine for each participant!

Overall, the Ohio Section’s first charity golf scramble was a success and an enjoyable event for all who attended. Over \$1,800 was raised for Ohio Section AIPG student chapters. The Section looks forward to organizing another event in 2020. Golf outing participants and organizers were however saddened to learn that the days of the Blackhawk Golf Club are numbered as the facility is slated for a residential development, so the Section will be looking for another venue to host next year. One of the next tasks of the Executive Committee will be to determine how best to use the raised funds, perhaps for student chapter activities or establishment of a scholarship, or some combination of ideas. Thanks again to all participants and sponsors. We look forward to seeing you again in 2020! ●






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Scenes from the Ohio Section Charity Golf Scramble







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News from Wright State University Student Chapter of AIPG



The WSU Student Chapter of AIPG has provided the *Newsletter* with a listing of officers for the 2019-2020 academic year. The WSU Student Chapter is led by Dr. Stacey Hundley. The WSU Student Chapter of AIPG officers for the current academic year include the following:

Wright State University Chapter of AIPG, 2019 – 2020		
OFFICERS	President	Mike McKean
	Vice President	Paige Wilms
	Secretary	Sam Mulkey
	Treasurer	Margaret Lingane
ADVISOR	Stacey Hundley, Ph.D., Lecturer, Earth & Environmental Sciences Department, MEM-2546	

Please take a moment and welcome these WSU Student Chapter of AIPG officers and their fellow student members at a future AIPG event. ●

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News from The Ohio State University
Student Chapter of AIPG

The Ohio State University Student Chapter of AIPG has provided the *Newsletter* with a listing of officers 2019-2020 academic year.

The Ohio State University Chapter of AIPG, 2019 – 2020		
OFFICERS	President	Ljubomir Risteski
	Vice President	Molly Hunt
	Secretary	
	Treasurer	Kira Harris
ADVISOR	Frank Schwartz, Ph.D., College of Arts and Sciences, School of Earth Sciences	

Please take a moment and welcome these OSU Student Chapter of AIPG officers and their fellow student members at a future AIPG event. ●



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**News from Youngstown State University
Student Chapter of AIPG**



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Youngstown State University Student Chapter of AIPG has provided the *Newsletter* with a listing of officers for the 2019-2020 academic year.

Youngstown State University Chapter of AIPG, 2019 – 2020		
OFFICERS	President	Noah Allen
	Vice President	Eric Lloyd
	Secretary	Maura Salyard
	Treasurer	Justus Land
ADVISOR	Dr. Jeff Dick, Professor and Chair, Geological & Environmental Sciences	

Please take a moment and welcome these YSU Student Chapter of AIPG officers and their fellow student members at a future AIPG event. •



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Public Outreach Opportunity

Contributing author Tom Jenkins, CPG-07892

The Cleveland Geological Society is looking for informal speakers to attend their regular meetings and speak on topics of geologic interest. Meetings are held on the third Wednesday of the month from September through May at 7:30 pm in Classroom A on the Cleveland Museum of Natural History's lower level (unless otherwise noted on the website).

The Cleveland Geologic Society was founded in 1957. Membership is open to people interested in all aspects of geology. Monthly meetings feature talks on diverse topics, such as the geology of far-flung places, explanations of local points of interest, and paleontology. Members and visiting geologists are invited to speak. The society also holds field trips to local sites and occasionally more distant locales.

The Cleveland Geologic Society helps support a number of museum programs. Among these are the summer **Kirtlandia Research Internship Program** and **Archaeology & Earth Science Day** in October.

For additional information, check out the website at <https://www.cmnh.org/join-support/clubs-societies/Cleveland-Geological-Society>. To present a topic as a speaker please contact Doug Dunn (DDunn@cmnh.org) at the Cleveland Museum of Natural History.

Letters to the Editor and Editorial Submittal Guidelines

The Ohio Section welcomes and encourages membership discourse via the Section newsletter on relevant geopolitical and geological topics, in accordance with our chartered purpose. Contributing authors are requested to abide by the following guidelines to ensure civility and professionalism.

1. Scientific interpretations should include accurate and effective references.
2. Opinion pieces should be presented with reasoning. Fellow members may choose to comment or challenge a submittal with their own contribution.
3. Authors must abide by the AIPG Code of Ethics. Any author who violates this code will not be published. Authors must be respectful to fellow members, all political parties, officials and candidates.
4. Letters to the Editor should be under one page in 12 pt. Arial font.
5. Member authors should provide their name and certification number.
6. The Ohio Section also welcomes and will consider relevant articles from non-members, provided contributions abide by the above stated guidelines.

Contributions to the Ohio Section newsletter do not necessarily reflect the opinion of the Ohio Section or the editor. We reserve the right to edit for clarity and space considerations. Please send submittals to the editor at sbeanland@eagoninc.com.