



# PCPG

Pennsylvania Council of Professional Geologists  
116 Forest Drive • Camp Hill, PA 17011  
Phone (717) 730-9745 • pcp.org

## PG Review Course for the Practicing Geologist & ASBOG Exam Prep

*Presented in conjunction with  
the Pittsburgh Geological Society*



### DAY ONE

**Thursday, February 6, 2020  
Regional Learning Alliance  
Cranberry Township, PA**

7:30 - 8:00	Registration and Morning Refreshments
8:00 - 8:05	Greetings and Introductory Remarks
8:05 - 8:30	Day One Mock Test
8:30 - 9:45	General & Field Geology Rachel O'Brien, Ph.D, P.G. (Allegheny College)
9:45 - 9:55	Break
9:55 - 11:55	Mineralogy, Petrology, and Geochemistry Rachel O'Brien, Ph.D, P.G. (Allegheny College) (10 min. break at discretion of instructor)
11:55 - 12:30	Group Luncheon
12:30 - 2:15	Engineering Geology Matthew Morris, P.G., Project Manager and Senior Engineering Geologist (Gannett Fleming, Inc.)
2:15 - 2:25	Break
2:25 - 4:25	Structure, Tectonics, and Geomorphology Daniel Harris, Ph.D. (California University of Pennsylvania) (10 min. break at discretion of instructor)
4:25 - 4:45	Keys to mock test distributed, Q & A
4:45	Adjournment/Course evaluation, and Certificate Pick-Up

Please turn in your evaluation form, and pick up your Certificate of Attendance before leaving our meeting room. See you tomorrow at 8:00 AM sharp.



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***Thursday, February 6, 2020  
Cranberry Twp., PA***

### **About our Instructors**

***Rachel O'Brien, Ph.D., P.G.*** – Rachel is a Professor of Geology and Department Chair at Allegheny College. She received her B.A. in geology from Colgate University and an M.S. and Ph.D. in geology from Washington State University. In between her degrees, she garnered a variety of professional experience. She has managed a soils research lab, worked in the NJ Department of Environmental Protection, and worked overseas at the Danish Geotechnical Institute. She also completed a pre-doctoral research appointment at Oak Ridge National Lab. Rachel teaches Physical Geology, Geologic Hazards, Field Geology, Geochemistry, and Hydrogeology. She is currently working with her students on a regional bedrock elevation map for northwestern PA.

***Daniel Harris, Ph.D.*** - Daniel is an Assistant Professor of Geology at California University of PA. He received his M.S. in Geochemistry from WVU in 2008 and his Ph.D. in Structural Geology from WVU in 2011. Before coming to California University of PA, Daniel worked as an adjunct lecturer at Bethany College, WV and WVU for several years. Daniel teaches a number of courses with a heavy emphasis on field work, including Mineralogy, Petrology, Structural Geology, Tectonics, Field Methods in Geology, Field Camp, Computer Applications in Geology, Earth Resources, Introductory Geology, Geochemistry, and Petroleum Geology. His research focuses on Mesozoic tectonic reconstructions of Arctic Basins using field mapping and geochronologic sample analysis. Other research involves new methods in apatite geochronology and 24-hour fluctuations of heavy metal concentrations in acid mine-impacted streams.

***Matthew Morris, P.G.*** - Matt is the Geotechnical Practice Leader with Gannett Fleming, Inc. located in Pittsburgh, PA. Matt holds a M.S. in Geology from Kent State University, B.S. in Geology and Earth Science from Clarion University, and obtained his P.G. via ASBOG examination in 2005. Matt is Past President of the Association of Environmental and Engineering Geologists. Since joining Gannett Fleming in 1999, Matt has worked on a variety of transportation, dam, and other infrastructure projects across the United States. Matt has project experience in most engineering geology and geotechnical engineering subject areas, but specializes in rock and soil slope stability evaluation and mitigative design. He has been integrally involved in rock slope and landslide stabilization projects for various Departments of Transportation, Transit Authorities, Private Utility Agencies and the Army Corps of Engineers.



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### **DAY TWO**

**Friday, February 7, 2020  
Regional Learning Alliance  
Cranberry Township, PA**

7:30 - 8:00	Registration and Morning Refreshments
8:00 - 8:05	Opening Remarks
8:05 - 8:30	Day Two Mock Test
8:30 - 10:15	Seismology, Exploration Geophysics, Well Logging Thomas E. Jordan, Ph.D., P.G. (Key Environmental, Inc.)
10:15 - 10:25	Break
10:25 - 12:15	Hydrogeology Kyle Fredrick, Ph.D. (California University of Pennsylvania)
12:15 - 12:50	Group Luncheon
12:50 - 2:35	Sedimentology, Stratigraphy, and Paleontology Tamra Schiappa, Ph.D. (Slippery Rock University)
2:35 - 2:45	Break
2:45 - 4:45	Economic Geology and Energy Resources Kristin Carter, P.G. (DCNR Bureau of Topographic & Geologic Survey) (5 min. break at discretion of instructor)
4:45 - 5:00	About the ASBOG Test, Keys to Mock Test Distributed (Self-Guided)
5:00	Adjournment/Course evaluation, Certificate Pick-Up

Please turn in your course evaluation, and pick up your Certificate of Attendance before leaving. Hope you enjoyed the course and found it to be useful.



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### **About our Instructors**

**Kristin M. Carter, P.G.** - Kristin serves as Assistant State Geologist of the Pennsylvania Geological Survey (PAGS) and manages the Survey's Economic Geology Division. Kristin has worked as a petroleum geologist for the Survey since 2001, and her current research efforts involve unconventional petroleum reservoir and storage reservoir characterization, subsurface stratigraphy and carbon capture utilization and storage. Prior to joining PAGS, Kristin worked as a consulting hydrogeologist in the private sector, managing projects throughout the Appalachian region. Kristin holds a Master of Science degree in Geological Sciences from Lehigh University and a Bachelor of Science degree in Geology/Environmental Science (double major) from Allegheny College. Kristin passed the Pennsylvania Professional Geologist test in 1998 and is acknowledged as a Certified Petroleum Geologist by the American Association of Petroleum Geologists.

**Kyle C. Fredrick, Ph.D.** - Kyle is a Professor of Geology at California University of PA. He is the Treasurer of the Pittsburgh Geological Society for which he has also served as Vice President. He has a Ph.D. in Geology from University at Buffalo ('08), and a B.A. in Geology from University of Wisconsin - River Falls ('00). He teaches a wide variety of courses, primarily related to Hydrology, Hydrogeology and Environmental Geology, and leads an annual field course through distant areas of geologic interest in the US. His research focuses on stream/groundwater interactions and modeling groundwater flow in regional aquifers. His current research includes surface water pollution and surface/groundwater interactions in streams in southwestern PA, and flooding of wetlands and lowland areas in Wisconsin. Other research interests include fluvial geomorphologic response to natural and anthropogenic flow changes and landslide susceptibility modeling.

**Thomas E. Jordan, Ph.D., P.G.** - Dr. Tom Jordan is an adjunct professor at Youngstown State University and a Supervising Geologist / Geophysicist with Key Environmental, Inc. located in Carnegie, Pennsylvania. He has a B.A. in geology from Alfred University, an MS in geology from SUNY at Fredonia, and a Ph.D. in geology / geophysics from the University at Buffalo. Dr. Jordan is a licensed PG in nine states by ASBOG examination or reciprocity and has 32 years of professional experience working on geophysical projects for clients in the environmental, engineering, and exploration sectors.

**Tamra A. Schiappa, Ph.D.** - Professor, Stratigraphy and Paleontology, Slippery Rock Univ. Dr. Schiappa received a B.S. in geology from SUNY Plattsburgh, a MS in Earth Science from Boise State Univ. and a Ph.D. in Geology from Univ. of Idaho. Her research involves Upper Paleozoic conodont and ammonoid biostratigraphy of northern Pangaea; development of the Cisuralian time scale; and stratigraphy and carbonate sedimentology. She is actively involved in an international effort to build the Permian time scale and developing an understanding of the development of the western margin of North America and the assembly of Pangaea.