



PCPG

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

PG Review Course for the Practicing Geologist & ASBOG® Exam Prep Virtual Webinar Series: Summer 2022

Presented in conjunction with
the Pittsburgh Geological Society



About Our Instructors

Kristin M. Carter, P.G. (PA Geological Survey) - 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.

Barbara J. Dunst, P.G., C.P.G. (Musser Engineering, an EARTHRES Company) - Ms. Dunst is a Licensed Professional Geologist in PA and a Certified Professional Geologist from the American Institute of Professional Geologists with over 35 years' experience primarily in underground coal mining and shale gas. Currently employed by Musser Engineering as a Senior Regional Director, Hydrogeology, Barb does mine permitting, data analysis and reserve studies for the coal and non-coal mining industries. Barb started her career as an exploration geologist in PA, MD, and WV for surface and underground coal mining. She has worked for several environmental consulting firms evaluating geologic and hydrologic impacts from mining along with managing numerous hydrogeologic investigations in multiple states for landfill design and waste disposal contamination. Ms. Dunst also worked for the PA Department of Environmental Protection as a lead reviewer on underground coal mine permitting and helped draft the initial non-coal mine regulatory technical guidance documents.

Ms. Dunst has participated on numerous statewide committees including the Marcellus Shale Coalition task force to help draft Act 214 of 2011, requiring coordination between coal mine and gas well operators. Barb worked on the PA Technical Advisory Board Coal-Gas subcommittee with industry professionals, state and federal regulators to conduct a coal pillar field study that established procedures and mining limits to natural gas wells drilled into active coal mines. Barb is the immediate past-president of the PA Council of Professional Geologists, past president and vice president of the PA Mining Professionals, past member of the PA Coal Association underground regulatory committee and current member of the Women's Energy Network.

Kyle C. Fredrick, PhD (California University) - 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.

Daniel Harris, PhD (California University) - Daniel is an Associate 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.

Thomas E. Jordan, PhD, P.G. (Key Environmental, Inc.) - Dr. Tom Jordan is part-time teaching and research faculty 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 10 states by ASBOG examination or reciprocity and has over 30 years of professional experience working on geophysical projects for clients in forensic investigation, environmental, engineering, and the resource exploration sectors.

Gary M. B. Kribbs, P.G., President (AEON Geoscience, Inc.) - Kribbs received a B.A. in geology and an M.S. in geology from the Univ. of Toledo. Registered as a P.G. in five states, he is a structural geologist with 40 years' experience. Kribbs has conducted numerous watershed evaluations with a specialty in spring source water hydrogeologic investigations for the private sector with a focus on deep structural aquifers. Kribbs has conducted numerous landslide and slope failure investigations in landslide terrain on PennDOT, VDOT and commercial developments, and other large earthworks projects throughout PA, OH, TX and VA. He has provided technical expertise for excavation, grading, and geologic hazard mitigations of sinkholes and karst features, and has conducted deep mine investigations for commercial, highway, and solid waste projects. Also, channel and sediment evaluations for dredge disposal for ACOE and local port authorities.

Matthew Morris, P.G. (Gannett Fleming, Inc.) - 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.

Christopher Mulry, P.G., Vice President (GES, Inc.) - Mr. Mulry is a Vice President and Principal Hydrogeologist for GES, Inc. He has a diverse background in environmental investigations, risk management and the design, operation and maintenance of soil and groundwater remediation and management programs - primarily at petroleum facilities. He has served with GES in various technical and managerial capacities since 1986 and has worked at project sites in the US and internationally. Mr. Mulry has been responsible for completing investigative and remediation programs in a wide range of site settings with an emphasis on Conceptual Site Model development. He has experience with direct sensing and geophysical tools and techniques as well as hydrogeologic evaluations in complex and fractured rock settings. Mr. Mulry has presented technical topics on a wide range of subjects including fractured rock characterization, LNAPL behavior, natural source zone depletion, mass flux and petroleum vapor intrusion. He also leads an internal group of hydrogeologists at GES that focuses on technical innovation, quality and training. Mr. Mulry is a licensed professional geologist in the states of Delaware, Pennsylvania, Virginia and New York. Mr. Mulry has a BS in Geology from the University of Delaware and an MS in Geology from the University of Maine.

Rachel O'Brien, Ph.D., P.G. (Allegheny College) - 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.

Tamra A. Schiappa, PhD (Slippery Rock University) - Tamra is a Professor of Geology at Slippery Rock University. She specializes in Stratigraphy and Paleontology. She currently serves as Past President of the Pittsburgh Geological Society for which she also served as President for three years, and Vice President for two years. 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 refine the Permian time scale and serves as one of 13 voting members on the International Commission on Permian Stratigraphy. Working with a team of Permian scientists, she is assisting in understanding the tectonic development of the western margin of North America during the Upper Paleozoic and how climate change affected life during this time.