

## 1. Name

Gary Kent Rogers

## 2. Education – degree, discipline, institution, year

**Doctor of Philosophy, Mining Engineering, 5/89**

Virginia Polytechnic and State University, Specialization: Geological/Geotechnical Engineering

Doctoral Dissertation: The Stability of Portals in Rock

**Master of Engineering, Civil Engineering, 6/83**

University of California - Berkeley, Specialization: Geological/Geotechnical Eng., Construction Mngt.

Master's Thesis: Ground Control at the Feather Fork Gold Mine

**Bachelor of Science, Mining Engineering, 5/81**

West Virginia Institute of Technology, Specialization: Ground Control

## 3. Academic experience – institution, rank, title, when, full time or part time

8/93 - To Date **Professor.** Lexington, VA. Professor, Civil and Enviro Engineering Department, Virginia Military Institute. Materials, Mining/Geotechnical/Geological Engineering.

1/93 - 8/93 **Instructor, Consultant.** Lexington, VA. Instructor, Civil and Enviro Engineering Dept, Virginia Military Institute. Consultant, Geotechnical/Geological Engineering.

## 4. Non-academic experience – company or entity, title, brief description of position, when, full time or part time

7/92 - 1/93 **Consultant.** Blacksburg, VA. Consultant, Mining and Geotechnical/Geological Eng.

7/91 - 7/92 **Mine Ventilation Services, Inc.** Blacksburg, VA. Manager, East Coast Office.

5/89 - 5/91 **Vecellio & Grogan, Inc.** Beckley, WV. Project Coordinator.

12/86 - 5/89 **Virginia Polytechnic and State University (VPI&SU).** Blacksburg, VA. Research Assistant.

11/85 - 12/86 **Mine Ventilation Services, Inc.** Lafayette, CA. Mining Engineer.

1/85 - 11/85 **U.S. Army Eng District, Corps of Engineers, San Francisco.** CA. Civil/Geotech Eng.

6/82 - 1/85 **U.S. Army Eng Division, Corps of Engineers, S. Pac. Engineer Div.** CA. Civil/Geotech Eng.

9/81 - 6/82 **University of California, Berkeley.** CA. Research Assistant.

12/79 - 1/81 **Sterling Smokeless Coal Company.** Whitby, WV. Underground Transitman.

5/75 - 8/81 **Robert J. Rogers, Licensed Land Surveyor.** Beckley, WV. Transit/Draftsman.

## 5. Certifications or professional registrations

Commonwealth of Virginia Professional Engineer – Mining Engineering (VA 023988)

UTD-Leidos Sponsored Security Classification

## 6. Current membership in professional organizations

American Society of Civil Engineers (ASCE)

## 7. Honors and awards

Appointed VP for Historic Crozet Tunnel Foundation Board of Directors (Jan 2012)

Faculty Teaching “Excellent” Classification (2011 - 2017)

## 8. Service activities

Serve a variety of VMI Committees and Departmental Duties

Advise Cadets on ASCE projects

Supervise/Employee Cadets on research projects

## 9. Publications and presentations from the past five years – title, co-authors if any, where published and/or presented, date of publication or presentation

Listed below within “professional development activities”

## 10. Most recent professional development activities

- Leidos – Security Classification. Consulting/Research. 2017 to Date. Geological/Geotechnical Engineering.
- Raytheon – Security Classification. Consulting/Research. 2012 – 2017. Geological/Geotechnical Engineering.
- Historic Crozet Tunnel (c. 1850 – 1944), VA, Foundation Board of Directors – Vice President 2012 to Date.
- UTD-Raytheon. Periodic Security Classification Review/Update. [Classified] 2012.
- UTD-Raytheon. Rock Core Testing – Material Properties. Sunbright. Students. 2012.
- Secure Mountain. On Site Review and 2<sup>nd</sup> Phase Design Planning. 2012. [Proprietary]
- Secure Mountain. Field Trip/Coordination with Cave Survey Group. 2011. [Proprietary]
- Low Moor Site Underground Data Storage Site Recommendations, Alleghany County. 2011.
- DTRA/IGAT Peer Review Meetings. Bi-Monthly. Ongoing. 2011. [Classified].

- Antebellum Portal Excavations and Ground Condition Assessment. Buchanan. 2011.
- UTD-Raytheon. Subsurface Widget Testing. Sunbright Site. [Classified]
- UTD-Raytheon. Field Trip Lead. Sunbright Site, Scott County, VA. 2011.
- VMI Earthquake Damage Assessment Overview. 2011.
- Secure Mountain. Underground Data Storage Center Research. 2011. [Proprietary]
- Depth-to-Bedrock and Weathered Rock Research. 2011. [Classified].
- Sunbright Underground Mine Continuous NX Rock Core Properties and Unconfined Compressive Strength Testing. Scott County, VA. Sunbright Group. 2011.
- Historic Crozet Tunnel (c. 1850 – 1944) Nelson & Augusta Counties, VA) Foundation Board of Directors appointment. 12/03/10 Inaugural Meeting. 2011 ongoing.
- Student Internship Sponsor with UTD-Raytheon. Geological/Geotechnical. 2010 – 2011.
- DTRA/IGAT Peer Review Meetings. Monthly to Bi-Monthly. Ongoing. 2010. [Classified].
- Water Table Research. UTD-Raytheon. Ongoing. 2010. Classified.
- Weathered Rock Research. UTD-Raytheon. Ongoing. 2010. [Classified].
- Low Moor Underground Limestone Mine Vibration Analysis (Proposed Underground Data Storage Center). Alleghany County. VA. 2010.
- Sunbright Underground Mine Preliminary Geological/Geotechnical Feasibility Assessment for Conversion to Underground Data Storage Center, Scott County, VA. Allegheny Construction, Roanoke, VA. Lab testing of rock included with field research. 2009 – 2010.
- Crozet's Old Blue Ridge Tunnel Renovation Research and Engineering Consulting, Nelson County, VDOT, Whitesell Group, Mattern & Craig, 2009. Ongoing.
- Weathering Research, Raytheon-UTD, [Classified], Ongoing. 2009.
- DTRA/IGAT Peer Review Meetings. Monthly to Bi-Monthly. Ongoing. 2009.
- Multiple IGAT Meetings, Hard Target Research and Analysis Center (HTRAC), [Classified], July 2008 to January 2009.
- Luck Stone Research Meeting, Richmond VA, July 30, 2008. [Classified] Weathering.
- Interagency Geotechnical Assessment Team (IGAT) Working Session Meeting, Hard Target Research and Analysis Center (HTRAC), [Classified], July 24 – July 25, 2008.
- Weathering Research, Luck Stone, IGAT, and Raytheon, [Classified], May/June/July, Ongoing. 2008
- TS-SCI Classification Finalized (Formally Initiated January 2006). Raytheon-UTD Sponsor for IGAT/HTRAC projects. [Classified] May 2008.
- Interagency Geotechnical Assessment Team (IGAT) Meeting, Hard Target Research and Analysis Center (HTRAC), [Classified], March 30 – April 5, 2008
- Quarry Field Trips w/IGAT members, assisted by DMME, Granite Study, Raytheon/DTRA, December 2008
- Crozet Blue Ridge Tunnel – Phase II Design, VDOT, Nelson County, Mattern & Craig, Whitesell Group, Roanoke, VA September 2007, on going research
- Granitic Study, UTD/Raytheon aided by VA DMME, September 2007, ongoing research @ VA various VA quarry locations
- Interagency Geotechnical Assessment Team (IGAT) Meeting, Hard Target Research and Analysis Center (HTRAC), [Classified], September 23 – 27, 2007
- Interagency Geotechnical Assessment Team (IGAT) Meeting, Hard Target Research and Analysis Center (HTRAC), [Classified], April 23 – 27, 2007
- “Portals”, Short Course Lecture, Hard Target Research and Analysis Center, (HTRAC), Felice Associates, Herndon, VA, (2006), [Classified] – March 25 – 28, 2007
- “Portal Vulnerability Index (PVI)”, UTD/Raytheon, Hard Target Research and Analysis Center (HTRAC), [Classified] – Research Initiated August 8, 2006
- “Engineering Concepts – Crozet's Blue Ridge Tunnel”, Whitesell Group, Nelson County Board of Supervisors, Lovingson, VA, October 10, 2006.
- “Draft Stability Analysis, Crozet's Blue Ridge Tunnel” , VDOT, Nelson County, Mattern & Craig, Whitesell Group, Roanoke, VA, (Summer 2006)
- “Stability Methods Presentation – Crozet's Blue Ridge Tunnel”, Mattern & Craig, Roanoke VA, (2006)
- “Remote Analysis of Rock Structure” Presentation Interagency Geotechnical Assessment Team (IGAT) Meeting, Alexandria, VA, [Classified], UTD/Raytheon, (2006)
- “Portals” Presentation, Hard Target Research and Analysis Center, Raytheon/UTD, Herndon, VA, (2006), [Classified]
- “Portals” Presentation, Interagency Geotechnical Assessment Team (IGAT) Meeting, Alexandria, VA, [Classified], UTD/Raytheon, (2006)
- Lead Organizer, Field Trip to VA Portals w/Washington DC Professionals (2006), Virginia, [Classified TS-SCI]
- Crozet's Blue Ridge Tunnel Research (2002-2005), Whitesell Group, Rock Fish Gap, VA
- Portal Stability and Geologic Characterization, Classified, 2004 – 2005.
- Southern Illinois Tunnel Invert Stability Assessment, HDR, 2004.