

PSLS 2021 Presenter Bios

Matthew K. Bainbridge, E.I.T., S.I.

Matthew K. Bainbridge, E.I.T., S.I. earned a B.S. in Mathematics from FSU in 2007 and a B.S. in Civil Engineering from FSU in 2014 and has extensive experience in both Civil Engineering and Land Surveying. With a broad range of remote sensing experience, Matthew currently manages many geomatics technologies at CEC including Terrestrial LiDAR, Mobile LiDAR (MLS), Aerial LiDAR (ALS), and photogrammetry. Mr. Bainbridge has been heavily involved with the ongoing digitization of the city of Volterra, Italy since its inception in 2016 in collaboration with Case Technologies and the Volterra-Detroit Foundation.

Rick Celender, RLA, C.E.T., CPESC, CPSWQ

Rick is a Vice President and Registered Landscape Architect/Civil Engineering Technologist at Civil & Environmental Consultants, Inc. Pittsburgh office. He has more than 25 years' experience in pipeline, well pad, compressor station, processing/fractionation plant design/permitting, stormwater BMP maintenance/inspection, ESCGP/NPDES permitting, and civil engineering consulting. His experience with site design coupled with specialization in stormwater management and erosion control provides a unique insight into current trends in stormwater and erosion control design and construction. Rick has given presentations related to stormwater maintenance/inspection, erosion control practices, and unmanned aerial vehicle operations to Municipal Governments, the American Public Works Association, Pennsylvania Association of Conservation Districts (PACD), PIOGA, the PADEP, Oil/Gas Operators, Lawrence County Career & Technical Center, the Commercial UAV Expo-Americas, and other organizations. He is an accredited instructor for the CPESC (Certified Professional Erosion/Sedimentation Control) exam review and is the West Virginia CPESC State Representative. Rick is a Certified Professional in Storm Water Quality (CPSWQ), has obtained OSHA Confined Space Entry and Rescuer Certification (29CFR1910.146), Wetland Delineator Certification (IWEER), and is certified through the National Institute for Certification in Engineering Technologies. Rick leads CEC's Unmanned Aerial Vehicle (UAV) program (inspection, topography, 3D modeling, etc.), is a member of the Marcellus Shale Unmanned Aerial Vehicle Committee, and coordinates with state and federal regulatory officials related to the integration of UAV/robotic technologies for permitting and reporting purposes.

D. Robert Davidson

Rob is a private practice attorney with Hummel, Lewis & Smith, LLP, where his practice emphasizes real estate, boundary disputes and land use. He currently is serving as the Solicitor for the Montour County Farmland Preservation Board. He served as corporate council for AgChoice Farm Credit Agricultural Credit Association, where he provided legal support to Pennsylvania's largest agricultural lender. Rob previously served as Chief of Land Use and Natural Resources for the Department of Agriculture, where he worked with the permitting of agricultural facilities, Right to Farm and ACRE laws, and the State's Agricultural Conservation Easement Purchase Program. Prior to joining the Department, he worked in zoning, planning and code enforcement for rural local government and as a surveyor and project manager for a civil engineering firm. Rob is a Pennsylvania Resident Title Insurance Agent, Pennsylvania Sewage Enforcement Officer (SEO), and Pennsylvania licensed Land Surveyor (PLS).

Mark Dietrick, Assoc. AIA

Throughout a career spanning 34 years as an architect focused on technology and research in support of innovation in practice, Mark has excelled at balancing a dedication to architecture with a nearly innate understanding of technology. As one of the first pioneers in the school of Computer Automated Design, Mark has been involved with the latest technology as it involves architecture, engineering, and construction throughout his career.

Mark is recognized nationally as a forerunner in the use of Building Information Modeling (BIM) technology in the practice of architecture, engineering, construction and operations, has helped to drive this significant change within the industry and is regularly sought-after by industry organizations to speak on the topic. His work in BIM has promoted more efficient and innovative design processes, more effective sustainable design strategies and tighter integration in project delivery.

His knowledge of technology in architecture extends beyond design and into the built environment in support of sustainable architecture. He has been involved with research that explores the potential impact that strategic use of technology may have on the effective life-cycle operations of buildings by more intelligently monitoring and controlling all systems from a consolidated Building Information Network. He is also leading a project to digitally preserve important Etruscan and Roman era archaeological sites in Italy which won an AIA Technology in Architectural Practice Innovation award in 2017.

Collectively, his expertise in the strategic use of technology for the design, construction and operations of real estate supports effective solutions to address significant current industry challenges and trends such as environmental sustainability, integrated project delivery, cost effectiveness and lean project delivery.

Kenneth J. Fronheiser, PLS

Kenneth J. Fronheiser, PLS is a professional licensed land surveyor in the Commonwealth of Pennsylvania with over 17 years of land surveying experience. During that time, Ken has been responsible for a wide variety of surveying projects to include: Topographical, Boundary, Construction Layout, RTK/GPS, GIS mapping, Bathometric, and Laser Scanning. Ken has worked for a variety of clients that span from private, public, educational institutions and government agencies. Currently Ken is a Sales Consultant for Keystone Precision Instruments.

Donald Groesser, PLS

Mr. Donald Groesser is a professional land surveyor with more than 34 years of experience in all phases of land surveying operations, including research, fieldwork, construction control and staking, boundary analysis, legal descriptions and completion of final plats and documents for ALTA/ACSM Land Title Surveys, boundary surveys, topographic surveys, route surveys, pipeline surveys, aerial control surveys, preparation of various statutory plats and other conveyance documents. He has held positions from entry-level rod man, instrument technician, survey technician, project manager, department manager and small business owner.

Donald is also the President, Southwest Chapter PLS and Chairman, PLS Standards of Practice Committee.

Frank Hahnel III

Frank John Hahnel, III, a Native Floridian, has an education and prior employment background in land surveying. He had worked on a wide variety of projects in both Florida and Georgia for a major civil

engineering and land surveying company in the 1990's. Frank transitioned in May 2000 to a startup company based in Silicon Valley, California that was in the beginning stages of manufacturing 3D Laser Scanners. He used their first-generation laser scanner to accurately map the exterior of the H.L. Hunley Civil War submarine later that year.

In 2001, Frank aided the Army Corps of Engineers at Ground Zero of the World Trade Center, four days after the 09-11 terrorist attacks. Shortly after in December of 2001, he scanned the site of the attack at the Pentagon for the Federal Bureau of Investigation (FBI). In the winter of 2002, he worked with the New York Police Department, New York Sanitation Department and the FBI to laser scan the World Trade Center debris piles at the Fresh Kills Landfill in Staten Island. His personal photographs, scan data, and story were published in Professional Surveyor Magazine in a three-part article in 2011. In June of 2016, Frank assisted in the Pulse Nightclub Terrorist attack that killed 49 people in Orlando, Florida. He worked alongside the Orlando Police Department bringing two 3D Laser Scanners to help complement their existing equipment.

Mr. Hahnel is an expert in the use of assorted 3D laser scanning systems and enjoys educating people all over the world on the many different applications and types of scanning technology. He has been employed with Trimble since June 2019, and currently holds the title of 3D Laser Scanning Manager – The Americas.

John Hamilton

Mr. Hamilton has 40 years of experience in surveying and 35 years of experience with GPS and has established over 50,000 control points across the US using static GPS and RTK/VRS methods. He is a recognized expert in least squares adjustments of geodetic networks and deformation networks, and has given numerous workshops on subjects including GPS, State Plane Coordinates, Azimuths, EDM use and calibration, and deformation surveys in the US and internationally as well. Mr. Hamilton has written numerous geodetic and data processing software programs and has been a principal with Terrasurv since 1998.

Jeffrey Horneman, PLS, GISP

Mr. Horneman has been working in the survey/geospatial field since joining the U.S. Army Reserves in 1984 as a geodetic surveyor. He attended Defense Mapping School (now National Geospatial Intelligence Agency) in Fort Belvoir for geodetic surveying, and received continuing education in the U.S. Army Professional Development Institute, Community College of the Air Force, and various conferences to acquire more than 200 credits in surveying, mapping, geology, GIS, and engineering. His experience during the past 38 years varies from surface and underground mining design and permitting, boundary & topographic surveys, ALTA surveys, subdivisions, construction surveying, GIS creation, oil/gas wells and pipelines, and consulting through several small to large private engineering and survey firms, and the U.S. Government (U.S. Army Reserves, U.S. Air Force Reserves, and U.S. Army Corps of Engineers civilian). Horneman retired from the Reserves as a Master Sergeant with 24 years of service, and currently works for the U.S. Army Corps of Engineers, Pittsburgh District, as the real estate cartographer for cadastral projects and GIS base mapping. He is licensed as a Professional Land Surveyor in Pennsylvania, West Virginia, and New York, and is also a GIS Professional. Horneman is a past president of the PLS Southwest Chapter, and served as the PADEP-PLS Liaison Committee chair and the Geospatial Committee.

Donald R. Housley, PLS

Don started his career in 1968 as a surveyor working at various levels on field survey crews for his father's firm, Kurch Housely and Associates, Inc. He has owned his own business and is manager at his current firm. Don has been a long-standing member of PLS and the Southwest Chapter and was chosen as Surveyor of the Year for 2019! He served as a State Director from 1992-1995 and again from 2009 to present. He is also active in his chapter's education

program, serving as Chapter Chairperson of Education, and regularly presenting continuing education seminars and preparation for PA State Registration Exam. Also being a licensed Real Estate Salesperson, Don has been instrumental in educating realtors. Now Don is working closely with his three sons, DJ, David, and Daniel all of whom are active in the land surveying profession and the local PSLS chapter.

Michael Hyman

Michael Hyman – Mr. Hyman is the Regional Director at Carlson Software Inc. for NY and PA. At Carlson SW Mike is focused on the Land Survey, Civil Engineering, and Construction market segments. Mr. Hyman is a 1991 graduate from Alfred State College with an A.A.S. in Land Surveying. Additionally, his responsibilities continually got him involved in working with Land Surveying technology for both the field and the office. Now at Carlson Software Inc. for 12+ years and 20+ years in the technology industry, Mr. Hyman is involved at many levels in the Land Surveying, Civil Engineering, and Construction industries where he lectures, supports, and presents innovative solutions to the industry related to Carlson Software products and services.

Rick Johnston

Since 1991 Mr. Johnston has served as the Director of GPS services for Skelly and Loy. During this time Mr. Johnston has overseen numerous GPS surveys as well as the development of Skelly and Loy, Inc. UAV aerial mapping program.

Gary Kent, PLS

Gary Kent is a professional surveyor in his 37th year with Schneider Geomatics in Indianapolis - having transitioned to part-time status earlier this year. He also provides training, consulting and expert witness services as owner and manager of Meridian Land Consulting, LLC. Gary has served on the Indiana State Board of Registration for Professional Surveyors since 2004 and is a past-president of both the American Congress on Surveying and Mapping and the Indiana Society of Professional Land Surveyors. He has presented programs on boundary law, easements and rights of way, surveying standards and practice, and leadership in all 50 states and three times in Europe.

Robert Miller, PLS

Robert Miller has been a licensed surveyor in Pennsylvania since 1979. He has been active in the PSLS since 1976 and the NSPS since 2005. As a member of PSLS, he has served as State President and State Director to NSPS. He also served as Trig-Star Coordinator from 2005 to 2018. Bob is currently the NSPS Treasurer and has served in that position since 2017.

Robert began his teaching career in 1989 as an assistant on the PSLS classes to prepare for licensure. In 1993, he started instructing at the PSLS Surveyors Conference for basic and applied survey mathematics. He has been teaching ever since on topics such as construction surveying, writing legal descriptions and construction evolution.

Robert has also been retained by the National Business Institute and Half Moon LCC to provide expert lectures on various topics such as boundary law, legal descriptions, and construction surveying.

Mr. Miller is currently Vice-President/Director of Surveying at Horizon Engineering, LLC. where he has been employed since 2007.

Laurel Mueller, CPSS

Laurel F. Mueller is President and Certified Professional Soil Scientist for Soil Services Company, Inc, which she started in 1984. Laurel represents CPSSs at the Soil Science Society of America. She is an SEO and a PSMA Onlot Wastewater System Inspector. In 2008, Laurel started Mountain Wastewater Management, a company that sells and services alternate sewage system components in northern Pennsylvania. Laurel's areas of expertise include soil and site characterization, soil classification, high-intensity soil mapping, saturated hydraulic conductivity testing, wetlands, stormwater, geomorphology for archaeology, expert testimony, sewage system maintenance, and custom-fit and large volume sewage system designs.

Ryan Rezzelle

Ryan M. Rezzelle works for Leica Geosystems as the manager of the Public Safety Group for the US & Canada. He spent fifteen years as a Crime Scene Investigator, most recently as the Supervisor of the Crime Scene Investigation Section for the Johnson County (KS) Sheriff's Office Criminalistics Laboratory (2008-2016) and previously for the Kansas City (MO) Police Department (2001-2008).

Ryan has achieved certification as Senior Crime Scene Analyst and he is a member of the American Academy of Forensic Science and the International Association for Identification, among a wide range of professional organizations.

Ryan was named in 2016 as one of 16 members of the NIST OSAC Sub-Committee on Crime Scene Investigation in the initial formation of the work group and he continues to serve in that capacity. He served from 2011 – 2018 on the National Sheriff's Association Emerging Technology Committee and he previously served as a member of the ASCLD-LAB Proficiency Review Committee for CSI.

Ryan was a founding member of the Kansas City Regional Mortuary Operations Group serving as Deputy Commander of the group working as a unit to develop the revised regional fatality response plan and building a response plan for large scale and mobile fatality management.

Ryan served as an Adjunct Professor for Missouri Western State University and Emporia State University (2012-2019) teaching crime scene reconstruction (MSWU), forensic archaeology (MSWU), forensic evidence (MWSU) and forensic photography (MSWU/ESU) for each of their Master of Forensic Science programs. He currently works with a variety of hospitals and SANE programs helping their staff refine and improve their photography skills with a yearly appearance (2017 - Present) at the International Association of Forensic Nurses conference, teaching Photography for SANE and Medical Purposes.

Rob Sinclair

Rob Sinclair is the Corporate Design Technology Manager for Civil & Environmental Consultants, Inc. (CEC) in Pittsburgh, PA. Rob brings more than 20 years of design- and technology-related experience to the civil infrastructure field. In his current role, Rob is responsible for providing support and training to 24 offices with more than 500 software users. He is also responsible for creating and maintaining company standards and workflows. Rob is enthusiastic about technology and enjoys staying on the forefront of emerging industry trends. He is an FAA Part 107 Remote Pilot and helped implement the UAV program at CEC. Rob is an Autodesk Expert

Elite, Civil 3D, and AutoCAD Certified Professional. He regularly teaches his peers how to use products such as Civil 3D, InfraWorks, Pix4D, and ReCap most effectively.

Thomas F. Smith, II, PE, PLS

Tom received a BS in Civil Engineering from Penn State in 1974 and a Master of Civil Engineering from Villanova University in 1986. He is a licensed Professional Engineer and Land Surveyor in Pennsylvania. He has over 45 years of experience in civil engineering. He is principal of Bercek and Smith Engineering, Inc. of Royersford, PA. He specializes in Floodplain studies, Stormwater Management and design of Subdivision and Land Development projects. Mr. Smith is a major contributor to the Virginia Tech, Penn State Urban Hydrology computer model, having been a guest instructor for over 30 years.

Jonathan Tabas, PE, PLS

Mr. Tabas's interest in engineering began while working for his father, a fabricator of structural steel in Philadelphia, PA. After graduating from Cheltenham High School, he matriculated at Drexel University and graduated in 1974 with a Bachelor of Science Degree in Civil Engineering, majoring in structures and construction. His first job after college was as a bridge inspector for Modjeski & Masters, Mechanicsburg, PA, climbing bridges and tall structures across the Eastern USA from Louisiana to New York. Returning to Southeast PA after a few years, he worked for several Structural, Civil and Land Surveying firms until the latter part of 1983, when he opened his own practice in Langhorne, PA. Over the past 37 years, the focus of his practice evolved from Civil/Structural Engineering to Land Surveying, and he recently opened a second office in Lansdale, PA. He is a member of ASCE, NSPE, PSPE, NSPS & PSLs. As an active member of the PA Society of Land Surveyors he attained the position of President of the Society in 2020. Mr. Tabas now serves as a member of the PA Registration Board for Registered Professional Engineers, Land Surveyors and Geologists.