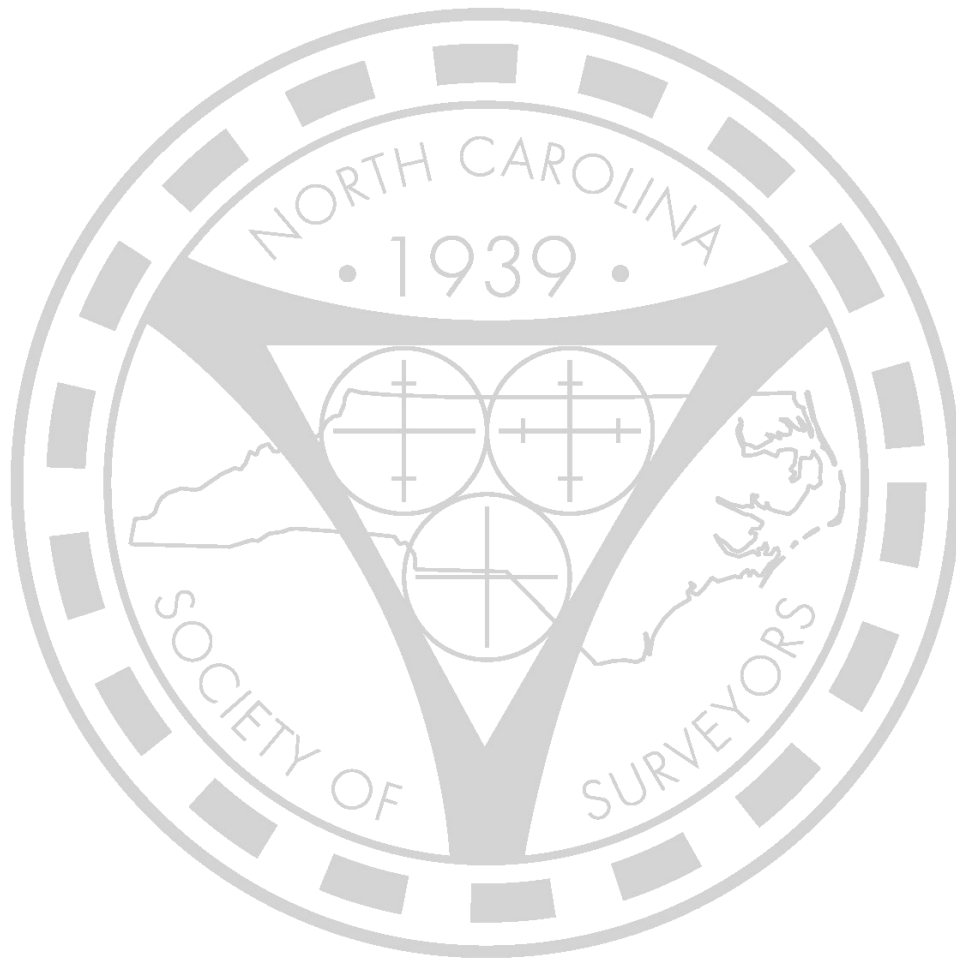


INSTRUCTOR DIRECTORY

BIOGRAPHIES & SCHEDULES



North Carolina Society of Surveyors

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J. PAUL ABRAMS

SOUTHERN REGIONAL MANGER FOR SMART VENT PRODUCTS, INC. (Floodproofing)

He has studied the science of flood mitigation for over 10 years, with a concentration in proper foundation flood venting techniques to ensure resilient structures while analyzing the role of building compliance in securing lowering flood insurance rates and what mitigation solutions are available through Smart Vent Products, Inc.'s Flood Risk Evaluator (FRE) division. He has been serving the construction industry for over 35 years through his efforts in marketing and educational seminars for Architects, Building and Code Officials, Contractors, Engineers, Floodplain Managers, Homeowners, Insurance Agents, Property Managers, Realtors, and Surveyors. He is an active member of North and South Carolina Surveyors Association, North and South Carolina Building Inspectors Associations, ICC Region 8, National ASFPM, and Floodplain Managers Associations in both Carolinas. Paul prides himself on contributing to the corporate mission to reduce the risk associated with flooding through education.



STEVE AGNEW

Stephen Agnew is an equity partner at IMCI. He is an expert on risk management issues affecting design firms and has 10 years of industry experience. He comes from a family of engineers with his father and grandfather both being mechanical engineers which give him a unique perspective on the design industry. He received his B.S.B.A in Risk Management &

Insurance and in Economics from the University of North Carolina at Charlotte and in 2002, he also studied International Business at the University of Copenhagen in Denmark. He is a licensed property and casualty agent as well as a Certified Insurance Counselor.



KENNETH W. ASHE, PE, CFM

Kenneth W. Ashe, PE, CFM, is the Assistant Director of the Geospatial & Technology Management Office at the NC Department of Public Safety. He has over 15 years of experience in water resources engineering and flood studies. He currently manages the NC Floodplain Mapping Program, the NC Flood Warning Program, the NC NFIP program, flood study and NFIP outreach staff and engineering staff. He has a BS in Environmental

Engineering and an MS in Water Resources Engineering from the University of Central Florida.

As of 6.5.2017 - Senior Associate Engineer - Water Resources at Amec Foster Wheeler



DOC ASBURY

Doc Asbury is the Marketing Manager for North Carolina 811, Inc. He has been involved in damage prevention with the NC 811, Inc. One Call Center since 1989. He served on the Board of Directors for 11 years and is a past president. He worked with the Telephone Industry with GTE for 35 years before retiring in 1999 and moving to NC 811, Inc.



PAUL A. BADR, PLS, CP, PPS, SP

Paul A. Badr, PLS, CP, PPS, SP, has over 27 years of experience in Photogrammetry and related fields. He has been the President of Independent Mapping Consultants, Inc. in Charlotte, NC for over 20 years. He has successfully completed thousands of mapping projects ranging in size and complexity for private and public-sector clients. He graduated from UNC-Charlotte with a BS in Civil Engineering Technology and has earned several professional licensures and certifications. He is licensed PLS, ASPRS Certified Programmetrist, SC Photogrammetric Surveyor, and VA Surveyor Photogrammetrist.

ROBERT E. BAILEY

Now officially retired from Carlson Software, I am looking to share my sales and management expertise garnered from more than 40 years of experience in both land surveying equipment sales and sales team/company management. Effective selling in this industry has many components, most of which I've encountered over my career. As a short-term consultant, I can be what your company needs to give sales staff a leg up or to help organize a new endeavor.

I have helped companies institute and organize sales teams, develop sales training programs, and manage extensive sales and support staff, and, all the while, increasing sales consistently. I will bring dedication, loyalty, diplomacy, and unmatched work ethic to any and all assignments and help to instill these qualities in your staff. Call me at 606-584-1206 or email me at bbailey1586@outlook.com to discuss how I can help your sales team improve.

BACKGROUND INFORMATION

Sales Expertise - As Southeastern Regional Sales Manager for the Lietz Company (now Sokkia), my sales volumes increased by a multiple of five over five years. In a subsequent position as South Central Sales Manager at Lietz, sales nearly doubled and I was awarded Salesman of the Year three years in a row. Before moving onto upper management at Lietz, the company doubled my geographic area and responsibility to over \$10 million in sales and I had three territorial sales managers reporting to me. From 1995-2003, I worked at Nikon Surveying, starting as a Sales Manager and ending up Sales Manager/Department Manager. During my tenure at Nikon, sales went from \$6 million/year to approximately \$17 million/year. Part of the sales success was due to the Nikon Purchase Program (NPP) instituted by me, which involved Nikon financing sales of total stations directly to the end user, paying a commission to the dealer. In its first year, business increased by 51 percent.

Initiative - I was also responsible for introducing a telemarketing program at Lietz to help support the sales staff, who were not able to fully service all of the company's dealers. I set up the training and also managed the program. Sales increased 37 percent in the target market the first year and more telemarketers were subsequently added.

Management - While in upper management at Lietz as National Sales Manager, I instituted training programs for territorial sales managers, to help familiarize them with the growing product line and sales techniques. The training program was then expanded to include dealer training programs. All were run consistently over several years, increasing employee retention and staying under budget throughout.

Over the past 13 years at Carlson Software, I have helped to bring structure to the software development teams and overall company organization. My extensive knowledge of the surveying instrument distribution channels proved invaluable as Carlson moved into a dealership distribution mode. For Carlson's worldwide employees - regional sales managers and many software developers who manage and work from their own home bases located around the world - I worked to be a unifying source of information and the go-to person to have questions answered or problems solved. I also helped initiate and organize Carlson's successful User Conferences.

Background/Education - I studied engineering and land surveying at Southern Technical Institute then spent several years working in the construction industry before getting into sales at Lietz. I have an Associates of Business Management degree from The Center for Degree Studies in Scranton, PA.

Class Offerings

1. Suggestions on How to Manage Your Business and Sales During a Recession 3-3.5 hrs.
2. Customer Service = Client Retention 3-3.5 hrs.
3. The Theory of Sales Part 1 (Sales Training - 1) 3-3.5 hrs.
4. The Theory of Sales Part 2 (Sales Training - 2) 3-3.5 hrs.
5. The Theory of Sales Training 3-3.5 hrs.
6. How to Get the Best Price Possible 3-3.5 hrs.
7. How to Better Manage the Bidding Process to Get the Price You Want (2 hrs.)
8. Sales Conversations & Questions That Help Increase Profits (3-3.5 hrs.)
9. How to Add Value by Differentiating Yourself and Your Company (2 hrs.)
10. How to Increase Your Sales (3 - 3.5 hrs.)



JOHN BARBOUR

John Barbour, a licensed NC real estate broker and appraiser. He received his BSBA from Appalachian State University and retired from the State of North Carolina with 30 years of service as a real estate property agent. Barbour is now performing brokerage, property management and consulting services.



WILLIAM E. BEARDSLEE, P.E., P.L.S., P.P.

Bill Beardslee is a licensed Professional Land Surveyor, Engineer and Planner with over 45 years experience in the field of land development. He is known for his excellent presentation and writing capabilities, along with being one of the leading technical experts on land development in the engineering and surveying arena. He has made over 2,000 presentations on engineering and surveying projects to local and state agencies. Prior to his retirement, he was the owner and Director of Engineering for Beardslee Engineering Associates in Sparta, NJ.

He has written a series of articles on "Preparation and Presentation" for the New Jersey Society of Professional Land Surveyors' award-winning magazine "*The Coordinate*." Bill is a past president of NJSPLS and that society's 2006 "Surveyor of the Year". He is also a regular contributor to *xyHt*, the magazine of the National Society of Professional Surveyors, as well as being listed in "*Who's Who in Technology*" and "*Who's Who in the East*."

Bill has taught numerous seminar programs at the high school, college and professional levels for over 30 years. He holds a Bachelor of Science in Civil Engineering from New Jersey Institute of Technology and a Master of Arts Degree in Corporate & Organizational Communications from Fairleigh Dickinson University. Now retired in North Carolina, he stays active in business development for Davis-Martin-Powell in High Point, NC. and is an approved Continuing Education provider in his home state. Bill offers the students a professional blend of technical expertise, communication knowledge and presentation skills for discussing issues in a clear and simple format.

Class Offerings

1. Client Communications – The Lifeblood of Business
2. The Pre-Proposal Meeting - Your Best Tool
3. Survey Cost Analysis
4. Proposal Writing - An Art And A Science
5. Managing Your Business And Your Projects
6. Scope And Scope Creep
7. Educating And Training Survey Technicians
8. Ethics In Client Communications
9. When It Is Time To Move On
10. Presenting Technical Projects
11. Subdivision Design Concepts
12. Crisis Management
13. Leadership
14. The Business Plan

- 15. Contract Law
- 16. Preparation & Presentation - The Keys To Success
- 17. Scope And Scope Creep
- 18. Starting And Operating A Survey Business



RICHARD M. (MIKE) BENTON

Mike was born and raised in Goldsboro, NC. He graduated from Eastern Wayne High

School in 1976 and attended the college transfer program at Wayne Community College from 1976-1978. He graduated from Coastal Carolina Community College with an AAS degree in Surveying Technology in 1982. In 1991, After Living and working several years in Greenville, NC, Mike moved back

home to Goldsboro and established Benton & Associates Land Surveying and Mapping, PA. Mike has been an active member of the North Carolina Society of Surveyors (NCSS) since 1991, serving as the chairman of the Formal Education Committee from 1993-2000, President of NCSS in 2003 and the North Carolina Delegate to the Board of Governors for the National Society of Professional Surveyors from 2008-2013. On November 06, 2012, Mike was appointed by Governor Beverly Perdue to serve on the Board of Examiners for Engineers and Surveyors where he currently serves as Vice Chairman of the Board and Chairman of the Survey Committee.



SCOTT BLACK

Scott Black has been the GIS Manager at Burke County since 2001. After graduating with a B.S in Geography from UNC-Charlotte in 1993, he started with Burke County as a GIS Specialist. He earned the GIS Professional designation from the GIS Certification Institute in 2004, is an NC Certified Property Mapper, and is a Senior Mapper with the NC Property Mappers Association.



DAVID BOWERS

As the new manager of high definition services at Stewart, Inc., Mr. Bowers brings over 23 years of experience and knowledge from the land surveying and heavy civil practice areas, while working in North Carolina, Pennsylvania and New Jersey. For the last six years, Mr.

Bowers has excelled as a Trimble certified technical trainer and consultant for survey grade geospatial hardware and software, as well as heavy civil machine guidance systems for the southeastern region of the United States. Mr. Bowers is a professionally licensed land surveyor in the state of North Carolina. He received his Associates in Engineering with a Major in Surveying Technology from Pennsylvania State University. As an active member of the North Carolina Society of Surveyors and an alumni member of the College of Engineering at Pennsylvania State University, Mr. Bowers enjoys kayaking and spending time driving for charity functions at Virginia International Raceway.



TIM BOWES

Tim Bowes earned his AAS Degree in Agriculture from NC State in 1984 and Surveying Certificate from Wake Technical Community College in 1988. He obtained his PLS in NC in 1990 and is a graduate of the NCSS Institute in 1995. In 1999, he co-founded BBM Associates, Inc as a Surveying, Engineering and Land Planning Business in the Raleigh area where he was a Principal and Survey Operations Manager until BBM merged with VHB Engineering in 2016. He has been an active member in the Triangle Chapter since 1985 and active Professional member of NCSS since 1990. He has served NCSS on many of its committees and as an occasional instructor. He currently serves as the NCSS Vice President.



PETER BRENNAN

Peter Brennan graduated from Wake Technical Community College with an A.A.S. degree in Surveying Technology, while working for NCDOT. Always searching for a new challenge, he founded Brennan Land Surveying in 1996 and began providing surveying services in the Triangle area of North Carolina and New York. In 2011 he accepted the position of City Surveyor in Wilmington North Carolina. Since then he has been advancing the capabilities of the survey section and Engineering

Department. Grateful for the opportunity to live and work in North Carolina again, he has been a strong advocate for both the North Carolina Society of Surveyors and the Geomatics program at NC A & T. Peter is married for 26 years to Kathy, who has run the house, the books, and drawn her share of maps, helping him in every way possible to have very full life and career. Outside of work he can be found out on his kayak fishing, attending professional rodeos or attending class at NC A & T.

JEFF BROWN

Jeff Brown is the Coordination Program Manager for the North Carolina Center for Geographic Information and Analysis (CGIA) in the Government Data Analytics Center in the Department of Information Technology. His background is in economics and planning. In addition to coordination duties related to the NC Geographic Information Coordinating Council, he is project manager for the NC Parcels Project.



JOE BRUNO, PLS, CFS

Joe Bruno, PLS, CFS, is the Executive Vice President of Surveys and Emerging Technologies at ESP Associates, PA, where he has worked since 1988. He has served as ESP's principle-in-charge for the North Carolina Floodplain Mapping Program and DHS's Risk MAP PTS program. He was introduced to surveying in 1980 while studying mining engineering on a co-op program at West Virginia University. He became licensed as an NC surveyor in 1991. Bruno has managed most of ESP's Federal and State projects and has been instrumental in bringing innovative technologies from concepts to production.

TIM CAWOOD

Tim Cawood is a Senior Vice President and Manager for the Geomatics Division at McKim & Creed, a 300 person Civil Engineering & Surveying firm located throughout the Southeastern US. Mr. Cawood is a licensed Surveyor in 6 states, is an ACSM Certified Hydrographer and a graduate of ACEC's Senior Executive Institute (SEI). He currently serves as Chairman of the Council of Professional Surveyors Business Practices Committee.

Mr. Cawood started as a Rodman at McKim & Creed 31 years ago on the company's very first survey crew and has worked his way up to a senior executive position. He has witnessed the Geomatics group at McKim & Creed grow from \$100,000 to \$25million in annual revenues.

Related Articles and Presentations:

- *"Shoreline Success:"* Point of Beginning Magazine (POB) 2004 Issue
- *"Coastal Monitoring using RTK GPS"* National Conference on Beach Preservation Technology 2004
- *"Evaluating Survey Methods for Obtaining First Floor Structure Elevations for Use in Federal Shore Protection Studies"* Paper for *Solutions to Coastal Disasters 2005* Conference
- *"Mining For Ice Under The Ice"* –Professional Surveyor Magazine 2006 Issue
- *"Making Surveying a Profitable Part of Your Business"* American Council of Engineering Companies National Conference 2008 & American Congress on Surveying and Mapping National Conference 2009

DAVID B. COE (Brad)

- NC native, raised in Davidson County
- BS Forest Management NCSU 1984
- Procurement forester for Culp Lumber Company in New London, NC from 1984-1987

Self-employed as a consulting forester, helping landowners manage their forest lands and market their timber (as well as being engaged in all types of land surveying) since 1991.



JIM DAVIS, PLS

James E. Davis received his Bachelor of Science Degree in Surveying in 1989 from Ohio State University. After graduating, he served 4 years in the US Army as an officer in the Medical Service Corps. After completing his term of service, he worked for Concord Engineering & Surveying, Inc. (CESI) and was the project manager for the NC/SC State line survey. He also served as the President of the NCSS Education Foundation and the Chairman of the NCSS Education Committee.



JENNIFER DIBONA

Jennifer DiBona is a long time CAD consultant and trainer doing business as That CAD Girl. She has a degree in Surveying Technology and has worked in several consulting offices across North Carolina and also in Chicago. For a couple of years, she worked for a private developer in Eastern NC. Then she moved to Asheville where she spent a couple of years working with surface models. From there, she moved back to the Raleigh area and

started working with an Autodesk and Carlson Software reseller. In 2004, she became a full-time, independent consultant providing training, technical support, and other various consulting services. Jennifer has taught several Autocad classes for continuing education departments, presented at many conferences, including NCSS, and is certified by the NC Board of Examiners for Engineers and Surveyors to provide continuing education credit to licensees. She is also a supporter of North Carolina Society of Surveyors.



PHYLLIS ELIKAI, CPA, CMA, CIA

Phyllis Elikai is a CPA, CMA and a CIA and has worked in management, human resources and finance positions over the past 30 years. She started with McKim & Creed in 1989 in Wilmington and is currently Vice-President and Chief People Officer, responsible for human resources, training and development for the firm.

RICH ELKINS

Rich Elkins, GISP, has been the Land Records Manager for the NC Department of the Secretary of State since August 2016. He earned his BA in Geography from East Carolina University in 1996 and continued his studies at ECU in Urban/Regional Planning until 1998. From 1999 to 2012, he was the GIS Coordinator/Consultant in various counties including Edgecombe, Chowan, and Pitt. He became the GIS Land Records Manager for Pitt County in December 2012 and was there until becoming the Land Records Manager for NC Department of the Secretary of State.

DAVID J. EVANS

David joined the staff of the North Carolina Board of Examiners for Engineers and Surveyors in 1998. As the Board's Assistant Executive Director he supervises investigations of engineers, surveyors and corporations as well as non-licensed practice. David also oversees business licensure and compliance; continuing professional competency; license renewals; and the Board's regular program of enforcement and education.

David previously conducted criminal investigations in the U.S. Army as a Military Police Investigator. He is a past Chairman of the Committee on Law Enforcement for the National Council of Examiners for Engineering and Surveying. David has a B.A. in History and Social Science from Eastern Connecticut State University.



DEAN EXLINE

Dean D. Exline, P.L.S. is the founder and President of GeolInnovation, PC. He has 33 years experience as a land surveyor and is licensed as a Professional Land Surveyor in North Carolina, South Carolina, Virginia, West Virginia, Kentucky, Ohio, Idaho, Alabama and the US Virgin Islands. His background includes extensive experience in boundary, construction staking, GPS and conventional survey control, dam deformation

measurements, topographic surveys, small hydrographic surveys, coal pile quantity surveys, and power line surveys. In addition to being a speaker at various Professional Land Surveying Conferences around the US, he has authored technical papers on the use and economics of robotic surveying and the use of GPS to perform dam deformation measurements both nationally and internationally. He is a professional member of the North Carolina Society of Surveyors, the Professional Land Surveyors of Ohio and the Idaho Society of Surveyors.

NANCY FERGUSON

Nancy Ferguson is Vice President and Senior State Underwriting Counsel for Chicago Title Insurance Company in the Greensboro office, with a focus on Claims Management. She is also NC State Counsel for the Fidelity National Title Group. Nancy received her undergraduate degree in 1980 and her JD degree in 1983 from UNC-Chapel Hill and her MBA in 1996 from Wake Forest University. She is a NC State Bar Certified Specialist in Real Property Law: Business, Commercial, Industrial and Residential. Her experience includes private practice in various capacities and the title insurance industry.



PEGGY FERSNER

Peggy Fersner has been on the faculty of North Carolina A&T State University since 1993 teaching surveying, GIS, and hydrology courses. She is also the coordinator of the 4-year Geomatics program at NC A&T State University. Prior to this, she was a consulting engineer in Charleston, SC with an emphasis on subdivision design. She holds her BS and MS degrees in Civil Engineering from Virginia Tech and Clemson University, respectively.



GENE FINE

Originally from Denton NC, Donald E. Fine, Jr. NCPLS-3697 (Gene) graduated from NC State in 1988. He entered the US Airforce for Undergraduate Pilot Training. After a medical issue ended his military flying aspirations, the most related profession he could compare to aviation was Land Surveying. In 1991, he started his employment with Pyramid Land Surveying in Davidson, NC and then after two years Gene's employment moved to the Charlotte Utility Department where he was employed for two more years earning his Registered Land Surveyor's license at the start of 1995. At the end of 1995, Gene had the opportunity to enter the Army National Guard and by early 1996 he was ordered to Active Duty. For the next 18 years Gene served as a Medical Administrator with tours in Bosnia, and Iraq. During this time, he earned his Masters Degree from Baylor University. From his graduate training, he gleaned a practical knowledge of Statistics as it applies to Land Surveying. In 2014, he retired from the US Army and began teaching Geomatics at Wake Technical Community College in 2015 where is now employed. His primary area of professional interest is Boundary Surveying and test prep for the NCEES exams. His personal interests are aviation and saltwater fishing. He is a Commercial Pilot pursuing is Certified Flight Instructor certification.



ERIN FLECKENSTEIN

Erin Fleckenstein is a coastal scientist. She has been the regional manager at the North Carolina Coastal Federation since 2008. She received a Bachelor of Science in Marine and Freshwater Biology from the University of New Hampshire and a Master of Science in Marine Biology from the University of North Carolina at Wilmington.



KRISTIAN FORSLIN

Kristian Forslin is the GIS Coordinator for the NC Railroad Co. and has 20 years of experience in the geospatial industry as a project manager and GIS consultant. He has served on a number of boards and committees in the geospatial community, including Carolina URISA for over 10 years. He has also authored numerous articles on surveying, railroad, geospatial, and damage prevention matters.

MARK GALLAGHER

Mark Gallagher, Manager – CSX Transportation Property Tax Department



MARISSA GAGNE

CADD Microsystems

Marissa is the Practice Manager for Civil and Infrastructure at CADD Microsystems. Marissa graduated from Virginia Tech with Bachelor's and Master's degrees in Civil Engineering. She has been working with Autodesk products for over 20 years, specializing in the Civil, Survey, and GIS solutions. She has worked for a number of reputable civil firms in Virginia providing CAD support to transportation, utility, land development, mapping, and GIS projects. At CADD Microsystems, Marissa's responsibilities include managing the Civil Team, performing product demonstrations, teaching classes, giving seminars and workshops, and performing consulting for many Autodesk products such as AutoCAD, Civil 3D, Land Desktop, Map 3D and Raster Design.

STEVE GARRETT

North Carolina Emergency Management,
Risk Management

Steve Garrett has been a planner for the Risk Management Section of North Carolina Emergency Management since May 2005. Steve provides outreach services and technical assistance for Floodplain Management and the Floodplain Mapping Program, oversees the DOT MOA, and serves as the LOMC Manager. Prior to working with Risk Management, Steve served as a project manager and environmental specialist with the Hazard Mitigation Section in North Carolina Emergency Management for 5 years. He received a BS in Natural Resources and an MS in Natural Resources Management from North Carolina State University in 1997 and 2000, respectively.



BOB GLENNON

Bob Glennon is a private lands biologist serving clients of the USDA, Natural Resources Conservation Service and the Virginia Department of Game and Inland Fisheries in southeastern Virginia. His clients' principle interests are establishing and managing habitat for quail, rabbits, songbirds, and pollinating insects. He has 40 years of experience in natural resource management. Bob is a 24 year veteran of the USDA, Natural Resources Conservation Service and a 6 year veteran of the U.S. Fish and Wildlife Service. He has worked in 20 states, mostly as a conservation plant materials center manager and specialist. Because of his plant materials background, he also gets requests for assistance on coastal dune and marsh revegetation, freshwater wetland restoration, streambank stabilization, and windbreak establishment. Bob is a Certified Forester with the Society of American Foresters.

DANIEL GOVONI

Daniel Govoni is a Policy Analyst with the North Carolina Division of Coastal Management (DCM), which is headquartered in Morehead City. Previously, Daniel served as an Assistant Major Permits Coordinator with the DCM where he spent extensive time coordinating major development permits. His presentation will include an overview of the recent CRC Rule updates and changes.

PAULA M. GROSS, M.S.

- 1992 - Master of Science, Horticulture, University of Georgia, Athens, GA, 1995 Bachelor of Arts, Biology, Washington University, St. Louis, MO,
- 1998 – January 2018 - Lecturer, University of North Carolina at Charlotte, Biology Department/Botanical Gardens
- 2005 - January 2018 = Assistant Director of the UNC Charlotte Botanical Gardens University of North Carolina at Charlotte, NC
- 2006 - 2016 - Certified Interpretive Guide, National Association for Interpretation, 2008 – present Certified NC Pesticide Applicator, Public Operator
- 2014 - Present - Advisory Board, Central Piedmont Community College Horticulture Technology Department, 2013-present Tree Campus USA, UNC Charlotte



TIMOTHY GUISEWHITE

Timothy S. Guisewhite, PLS is part-owner of Henson Foley in Huntersville, NC. He previously worked as a Project Manager for Taylor Wiseman and Taylor's Charlotte office from 2004-2014. His passion lies in colonial boundary retracement and 18th and 19th-century survey methods and equipment, and he has performed surveys in 9 of the original 13 colonial states. Guisewhite is licensed in NC, SC, VA, and PA. He is a member of the Surveyors Historical Society and fabricates

surveyor's link chains as a hobby.



JASON HALL

Jason Hall is an NC licensed soil scientist and owner of Central Carolina Soil Consulting. He graduated from NCSU (1999) with a BS in Natural Resources and a concentration in Soil and Water Systems. He is a member of the NC Soil Science Society, National Society of Consulting Soil Scientists, and current secretary/treasurer for the Carolina Chapter of NCSSS.

KEVIN HART

Kevin Hart has been the Environmental Senior Specialist in the Washington, NC Division of Coastal Management (DCM) office for two years. As a specialist, he is responsible for monitoring and issuing permits and monitoring and enforcement of coastal development rules. Previously, he worked for the NC Division of Marine Fisheries as a Fisheries Resource Specialist commenting on development impacts on fisheries' habitat. Kevin received his B.S. from Rutgers University in 2004 and his M.S. From East Carolina University in 2008. He will present a CAMA AEC Overview and Site Plan Checklist to accompany Courtney Spears.



CHAD HOWARD

Chad T. Howard, PLS, Mr. Howard is a licensed Professional Land Surveyor in NC, SC and VA. He lives in Holly Springs with his wife Sara, and their two daughters. Howard has worked in the surveying field since he graduated from Wake Technical Community College in August 1995. In 2000, he earned his NC surveying license and joined Taylor Wiseman & Taylor. After seven months with the firm, he was promoted to Survey Department Manager. Howard has been a member of NCSS since he earned his license in 2000. He is currently the President of NCSS and chair of the Legislative Committee. In 2013, Howard received 1st place in the Boundary Survey category of the annual nationwide Plat Contest sponsored by NSPS.



JAMES (JEFF) JEFFREYS III

Jeff grew up in the Wilmington area. He went to UNC-Wilmington for two years and transferred to UNC-Charlotte for engineering. He worked the next summer at the Charlotte office of the Location & Surveys Unit of NCDOT. He left school in January 1989 and went to work full-time at L&S in Charlotte. In 2014 he was promoted to Locating Engineer for a new L&S office in Shelby and is currently working there. He became licensed as a PLS in NC in 1996. In 2005, he received an AAS in Surveying Technology from Central Piedmont Community College. He is licensed as a PLS in NC & SC and as a PE in NC. He is currently serving as the NCSS Mecklenburg Chapter President.



DANIEL KATZ

Daniel Katz is co-Founder of Aerotas.

Aerotas enables surveyors to incorporate drones into their operations as a complete solution with hands-on training, drone license test prep, insurance, data processing, and drone equipment to produce 0.1' accuracy. Prior to Aerotas, Daniel worked in innovation strategy consulting, helping businesses from the Fortune 50 to start-ups develop and incorporate new ideas into their operations. Daniel

has spoken at several conferences, including the 2017 conferences of the California Land Survey Association and Arizona Professional Land Surveyors, and is a regular contributor to magazines including Point of Beginning and multiple state land survey association magazines.



GARY KENT

Gary Kent is the Integrated Services Director for The Schneider Corporation, a land surveying, GIS and consulting engineering firm based in Indianapolis and with offices in Indiana, North Carolina and Iowa. He is in his 33rd year with the firm and his responsibilities include project and account manager, safety, corporate culture, training, coaching and mentoring members of the surveying staff, and advising the GIS Department on surveying matters.

Gary is a graduate of Purdue University with a degree in Land Surveying; he is registered to practice as a professional surveyor in Indiana and Michigan. He is the Chairperson of the NSPS/ACSM ALTA Standards Committee and is the liaison to NSPS for the American Land Title Association. He is also Past President of the American Congress on Surveying and Mapping and twice Past President for the Indiana Society of Professional Land Surveyors.



JOHNNY D. KERR, PLS

Johnny Kerr is a Professional Surveyor, licensed in Tennessee in 1990. He has maintained a private practice from 1990 to 2013. Prior to that, he worked full time as a party chief for Kerr Surveying & Mapping Company from 1985 to 1990. His father was a Professional Surveyor and his business partner for 16 years. Kerr has earned a B.S. in Surveying Science and an A.S. in Architectural Technology. He has been a Continuing Education provider in North Carolina, Tennessee, and Kentucky starting in 2009. Kerr has also been an instructor for the State of Tennessee Planning Office. Kerr has extensive experience in subdivision design, engineering / architectural site surveys, mining surveys, topographic surveys, industrial park design, ALTA surveys, Flood Certificates, large and small boundary surveys, route surveys, and boundary disputes.

www.kerrseminars.com

JAMES M. KIMZEY JR. PLS

- East Carolina University –English Major
- Started Surveying in 1984 – Boundary and Construction Surveying
- Wake Technical College – 1989 -1991 ABS Engineering Technology
- NC Registered Land Surveyor – 1993
- Began NCDOT Route Construction Surveying for Private -1994
- Started with NCDOT Construction Surveying Layout Party Chief,
- Promoted to Construction Survey Coordinator -1998 – 2016
- NCDOT Location and Surveys 2016 –to Present



KRISTOPHER M. KLINE

Kristopher M. Kline, PLS, President of 2Point, Inc., graduated from Bridgewater College in 1984 and has been involved in surveying ever since. He became licensed in NC in 1991 and graduated from the Otis A. Jones Educational Institute in 1999. Kline served for 3 years as Chairman of the NCSS Education Committee. He has appeared as an expert witness in court on numerous occasions and has spent the last several years focusing on boundary dispute. He has been presenting continuing education courses in NC since 2001 on various legal aspects of land surveying, as well as teaching in other states. Kline writes a bi-monthly column for the publication *Point of Beginning*. He often spends his spare time researching material for upcoming articles and classes. In August 2013, Kline published his first book *Rooted in Stone: The Development of Adverse Possession in 20 Eastern States and the District of Columbia*. In June 2015, his second book, *Riparian Boundaries and Rights of Navigation*, was completed.



DWAYNE KROEZE

Owner / President of Surveying Solutions, PC

- Co-founder, President and current owner of Surveying Solutions, PC – Incorporated the company along with a business partner in 2000. Become the sole owner of the company in 2012
- Incorporated and licensed Surveying Solutions, PC to provide Professional Land Surveying services in North Carolina, South Carolina and Virginia.
- Implement company drug policy and testing process with CCS
- Develop and implement business plans
- Establish a company culture of integrity, honesty and caring for employees
- Negotiate and procure office space, equipment and vehicles
- Develop and implement marketing strategies for client acquisition
- Initiate, maintain, and develop client relationships
- Manage payroll, accounts receivable and accounts payable
- Manage and procure company insurances
- Develop and manage employee benefits and pay for performance programs
- Write and develop company field procedures, survey field codes, CAD standards and project management work flows
- Interpret company financial reports and implement pricing strategies along
- Write project proposals along with defining work scopes for projects
- Manage survey field crews and office staff
- Draft, review, sign, and seal surveys.
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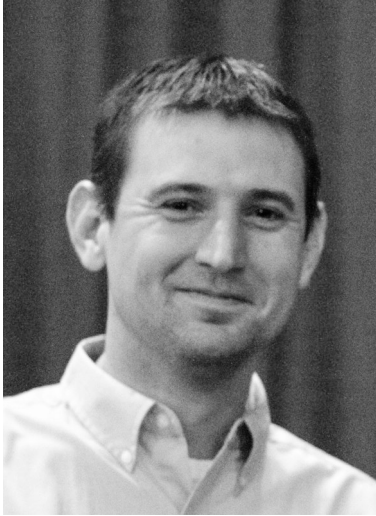
COLBY LAMBERT

Area Specialized Agent - Forestry, North Carolina Cooperative Extension, NC State University



RON LANCE

Ron Lance is a Biologist and Land Manager with the North American Land Trust, and currently caretakes a 3000-acre, privately owned tract of land near Glenville, NC. He has held previous posts in education, natural history interpretation, biology, forestry, botany and horticulture since 1975. He served on the Board of the International Oak Society for 12 years, and has authored and co-authored numerous publications dealing with native woody plants of the Southeastern U.S., including "Woody Plants of the Southeastern U.S., a Winter Guide" by the Univ. of Georgia Press and *Pyracantha* in *Flora of North America*, volume 9. His interest in hawthorns has yielded 14 separate publications on *Crataegus*.



CHARLES W. LAWLEY III (BUCKY)

Charles W. Lawley III (Bucky) is a 2003 graduate of North Carolina State University and has over 20 years of experience in Instrument Repairs and Technical Sales and Support through Transit and Level Clinic, a family owned business with locations throughout North Carolina. With instrument repair as the main focus of the business, Charles has received factory service training and high-level technical support training by all five of the major equipment/software manufacturers. Instructional topics include: Survey Pro Training, Carlson SurvCE Training, Leica Captivate Training, Basic Total Station Use, Basic High Definition Scanning Use, Surveying with Drones, Equipment Maintenance and Calibration, Understanding Accuracy and Precision in Surveying, and other Business topics.

LEE LEWIS LEIDY

Lee Lewis Leidy is the attorney and northeast regional director for North Carolina Coastal Land Trust, a North Carolina nonprofit conservation organization, based in Wilmington, N. C. Lee works out of the Coastal Land Trust's Elizabeth City office. Lee also teaches Coastal Law and Policy for UNC-Chapel Hill at its Outer Banks Field Site in Manteo. Prior to working with the Coastal Land Trust, Lee was a partner in the law offices of Hornthal, Riley, Ellis and Maland, L.L.P. where her practice focused on residential and commercial real property transactions. Lee received her B. A. degree *cum laude* from Wake Forest University and her J. D. degree from the University of North Carolina at Chapel Hill.



JOHN LOGSDON

John Logsdon, ESQ, PLS earned his Bachelor of Science Degree in Civil Engineering from Duke University in 1974. He started working in the surveying field in 1983 and received his licensure in January 1987. He owned and operated a small surveying firm in Wilkes County, NC until 1991 when he entered law school. By day, Logsdon worked as a real estate paralegal in Durham while attending the evening program at North Carolina Central School of Law. He graduated Magna Cum Laude with a Juris Doctor degree in 1995. After obtaining his law license, Logsdon returned to Wilkes County and joined the McElwee Firm, PLLC.

His practice emphasizes residential and commercial real estate transactions and the resolution of real property disputes. He has substantial litigation experience at both the trial level and in our appellate courts. He represents individuals, developers and corporate clients in matters of land acquisition, development, and financing, as well as commercial and business matters.



ADAM LOVELADY

Adam's work at the UNC School of Government is focused on land use law and local planning. As an Assistant Professor of Public Law and Government, he teaches, researches, and advises on topics of zoning, land subdivision, transportation, renewable energy, and historic preservation, and was named Albert and Gladys Hall Coates Distinguished Term Assistant Professor for 2015–2017. His publications include *Land Subdivision Regulation in North Carolina* (2015), regular blog posts on Coates' Canons: NC Local Government Law blog, and law journal articles on historic preservation and regional planning.

Before joining the School of Government in 2012, he practiced law with McGuireWoods LLP in Richmond, Virginia, where he focused on land use regulation, environmental law, and sustainable development. Adam earned a BA in history from Auburn University and a graduate planning degree and law degree from the University of Virginia.



JEFFREY N. LUCAS, JD, PLS

Jeffery N. Lucas is in private practice in Birmingham, Alabama. Lucas has been in the surveying business since 1976. He is a licensed land surveyor registered in Alabama, Florida, Georgia, Mississippi and Tennessee. Lucas is also a licensed attorney and member of the Alabama State Bar since 2003 and a mediator registered on the Alabama State Court Mediator Roster.

Lucas specializes in land boundary issues and practices throughout the southeast. He has been a seminar leader on surveying topics that include ALTA/ACSM standards, boundary law, law of easements, water boundaries, surveying evidence and procedures, expert witness testimony, business law, contract law, torts and liability. Lucas is the author of "Alabama Boundary Law" (ISBN: 978-0-557-53328-2), he has authored many articles on surveying and boundary issues and writes a regular column for *P.O.B. Magazine*.



RICHARD B. MANKIN

Richard B. Mankin, originally from Jacksonville, NC, returned home after serving 24 years as both enlisted and a Chief Warrant Officer in the US. Coast Guard. During his free time, he has earned his degree in Aeronautics and has received multiple certifications up to Commercial, Advanced Ground and FAA Certified Flight Instructor. He has over 2400 hours of flight time in 27 airframes. He is currently the manager of UAS

operations at Benchmark Tool and Supply as well as the owner of North Carolina Unmanned Aerial Services.

DUSTIN MANNING

Dustin Manning is the Manager of Geomatics Technology at Stewart, Inc. in Charlotte, North Carolina. He received his associate of science degree in digital media from Full Sail University. He is passionate about the implementation of new hardware, software, and workflows for application in the architecture, engineering, and construction (AEC) field. At Stewart, he implements new technology and workflows across the multi-discipline firm using his 10-plus year experience in site design. He is an Autodesk Certified Professional in AutoCAD software and AutoCAD Civil 3D software.

MARK D. MAZANEK

Mark D. Mazanek is the Director of Business Licensure & Compliance for NCBEES. Shortly after graduating from NCSU with a BA in Communications, he entered the Raleigh Police Academy and served with the Raleigh PD until 1999, when he left to become an investigator for NCBEES. He has served in his current position since 2006.



DALE MCGOWAN

Dale is a PLS and US Marine veteran who decided to make the State of North Carolina his home after serving honorably, where he earned a National Defense Medal, a Good Conduct Medal and an Honorable discharge. He entered the surveying profession 20 years ago as a field technician and rod man for an Engineering firm. As a project manager at this organization, he realized that running the rod, differential levels, the total station, the data collector, and checking the results of his work was some of his favorite responsibilities. He received his AAS in Surveying Technology from Wake Technical Community College and has recently completed the core Geomatics coursework at NCA&T State University. Currently Dale works with the DOT Location and Surveys Unit where he does some basic accounting and bookkeeping reconciliation and spends his time assisting with SUE and survey related matters for colleagues and friends. He has recently volunteered time to help the staff of NCSS expand the MAPS museum space for display, and serve administratively at large events such as the annual conference and Institute. Dale's willingness to serve comes from a quote he tries to practice, "Mentoring and empowering are more important than merely directing the actions of others..."

PETER MESSIER

Mr. Messier has 40 years of professional level experience in performing and managing a wide range of surveying and civil engineering engagements. He has successfully managed surveying projects with consulting fees in excess of \$500,000. During his career, he has also taught surveying and civil engineering courses, either full or part-time, at five institutions, most recently at Clemson University. In recent years Peter has focused on his passion for conducting deformation monitoring surveys. These surveys include design, performance and least squares analysis for standard and unusual types of structures.

For twenty-two years, Peter wrote and administered the Tennessee State Specific Land Surveying Examination for the Tennessee State Board of Examiners for Land Surveyors. He has served as a Special Master to the U.S. District Court at Knoxville on a federal land boundary dispute. He also provides specialized survey training including the use of Carlson SurvCE on total station and network RTK-GPS equipment for construction surveying personnel of the SCDOT. Peter is a company certified Star*Net Least Squares surveying software trainer.

For twenty-two years, Peter wrote and administered the Tennessee State Specific Land Surveying Examination for the Tennessee State Board of Examiners for Land Surveyors. He has served as a Special Master to the U.S. District Court at Knoxville on a federal land boundary dispute. He also provides specialized survey training including the use of Carlson SurvCE on total station and network RTK-GPS equipment for construction surveying personnel of the SCDOT. Peter is a company certified Star*Net Least Squares surveying software trainer.

Academic Profile

- Purdue University - Master of Science in Civil Engineering, Survey Engineering Graduate Program, 1978
- University of Maine - Bachelor of Science in Civil Engineering, Surveying and Highway Engineering Options, 1974
- University of Maine - Assoc. of Science in Civil Engineering Technology, Surveying and Highway Tech. Opt., 1970

Professional Licensure and Awards

- Registered Land Surveyor – State of Tennessee
- Professional Engineer – State of Tennessee
- Licensed Land Surveyor – Commonwealth of Virginia
- Professional Land Surveyor – State of Maine
- Professional Land Surveyor – Commonwealth of Pennsylvania
- The Philip R Carter Lifetime Achievement Award from the Tennessee Assoc. of Prof. Surveyors, March 2018

- Award for Service to the Land Surveyors of Tennessee from the Tennessee Board of Examiners, March 2018
- Award for dedication to students from 2007 & 2009 graduating classes in Surveying at Southwestern Comm. Coll.
- Award for dedication to students from 1995 graduating class in the Surveying Program at Old Dominion University
- The 1998-99 Outstanding Teacher Award from the Board of Visitors at East Tennessee State University
- Purdue University - Master of Science in Civil Engineering, Survey Engineering Graduate Program, 1978
- University of Maine - Bachelor of Science in Civil Engineering, Surveying and Highway Engineering Options, 1974
- University of Maine - Assoc. of Science in Civil Engineering Technology, Surveying and Highway Tech. Opt., 1970

Professional Licensure and Awards

- Registered Land Surveyor – State of Tennessee
- Professional Engineer – State of Tennessee
- Licensed Land Surveyor – Commonwealth of Virginia
- Professional Land Surveyor – State of Maine
- Professional Land Surveyor – Commonwealth of Pennsylvania
- The Philip R Carter Lifetime Achievement Award from the Tennessee Assoc. of Prof. Surveyors, March 2018
- Award for Service to the Land Surveyors of Tennessee from the Tennessee Board of Examiners, March 2018
- Award for dedication to students from 2007 & 2009 graduating classes in Surveying at Southwestern Comm. Coll.
- Award for dedication to students from 1995 graduating class in the Surveying Program at Old Dominion University
- The 1998-99 Outstanding Teacher Award from the Board of Visitors at East Tennessee State University

KATHY MITCHELL

Kathy Mitchell is a conservation horticulturist. She has been at the North Carolina Aquarium on Roanoke Island since 2000.

SEMINARS

Date	Location	Seminar Title	Topic	Length
12.9.2016	Elizabeth City	Coastal Issues	Winter Botanical ID	9:00-10:30



CRAIG MIX

Craig Mix is Director of Homeland Security for Trimble Navigation. Since 1978, Trimble applies technology to make field and mobile workers in businesses and government significantly more productive. Solutions are focused on applications requiring position or location—including surveying, construction, agriculture, fleet and asset management, public safety and mapping.



HOPE MORGAN, PLS, GISP, CFM

Hope Morgan, NCPLS, GISP, GIS Manager, North Carolina Risk Management, Division of Emergency Management

Hope has been working with Remote sensing technologies for 20 years. Hopes projects include the statewide collection of NC Orthophotography in 2010, collection of 5.25 million structures with associated data in 2010, collection of 1400 miles of coastal roads with Mobile lidar in 2013, and the current 5 phase collection of NC Lidar at a QL2 and QL1 level, to include 60 counties of linear lidar and 40 counties of Geiger Lidar.

Hope Morgan
GIS Manager- NC Risk Management
4105 Reedy Creek Rd
Raleigh, NC 27607
Hope.morgan@ncdps.gov
919-825-2336 (o)



FRANK MUNDY II, PLS

Frank Mundy II, PLS is the Vice President and Director of Geomatics at Stewart in Raleigh, NC, where he is responsible for managing Stewart's Geomatics services to include survey and subsurface utility engineering (SUE).

He graduated from Old Dominion University with a degree in engineering and is a licensed surveyor in NC, SC, VA, and WV. He is also a Past President of NCSS (2010). In 2008, Mundy was named one of the top young business leaders in the Triangle in the Triangle Business Journal's annual "Top 40

Under 40."



RYAN NEMITZ, CPA

Mr. Nemitz, a CPA, holds a B.S of Accounting from Appalachian State University and is a partner at Mitchell & Nemitz, PA. His daily duties consist of new business start-up consultations, tax preparation and planning, Quickbook consulting, and conducting audits for profit and not for profit. Ryan specializes in trust and estate tax planning and residential and commercial construction accounting. Ryan is an active member of AICPA, NCACPA, and is a coach with the Homeschool Football League. When Ryan is not in the office working or serving the Homeschool Football League, he enjoys spending time with his family, playing sports, Fantasy football, and actively serving in his church and surrounding community.



DR. JERRY NAVE

Dr. Jerry Nave is an assistant professor of Geomatics at NC A&T State University where he teaches courses in boundary location and legal principles, land systems, geodetic surveying, satellite positioning, ethics and professionalism and subdivision design. He earned his BS and MS in Surveying and Mapping and his doctorate in Educational Leadership and Policy Analysis at East Tennessee State University. He received his PLS in 1993 and has over 21 years of experience in the private and

public sectors.



KRIS NIXON

Kris Nixon, PLS, is Principal of Meridian 3D, Inc. Mr. Nixon specializes in industrial measurement with a particular focus on laser scanning and dimensional control in heavy industry plant and buildings. Mr. Nixon is a North Carolina PLS, licensed since 2000 with experience in 3D laser scanning since nearly day one of the technology. He lived abroad from 2002 to 2010 and is a former Director of Warner Land Surveys Ltd. in the United Kingdom. During his career, he has completed large-scale surveying and scanning projects at facilities all over the world. Mr. Nixon was formerly the Principal of the Laser Scanning Division for Meridian Associates, Inc. before the corporate separation of the division in 2014.



JEFF O'BRIANT, ESQ, PE, PLS

Jeffrey T. O'Briant, ESQ, PE, PLS received a degree in Civil Engineering from UNC Charlotte. He attended Campbell University and moved into a private legal practice. This legal knowledge led him to Progress/Duke Energy for 10 years. He is now in private practice with 30 years of diverse experience.



JARED R. OWNBEY, PLS

Jared R. Ownbey, PLS, has been surveying since 2004. He completed a two-year Associate in Applied Science Degree in Surveying Technology, where he graduated with top honors from Asheville-Buncombe Technical Community College in May of 2004. He has held his North Carolina Professional Land Surveyor License since December of 2008. Jared's past experience includes working as a crew chief at Vaughn & Melton Consulting Engineers, making the shift to the office as Surveying Department Chair at WNC Professional Engineers & Surveyors. He also has had extensive training in GPS. He is currently Surveying Instructor at Asheville-Buncombe Technical Community College where he has been since January of 2011, as well as, having his own small surveying firm. Jared's professional passion includes Boundary Survey Law.



SEAN PATTERSON

(SUE) profession and the facilities management industry. He manages projects at all levels of performance, including supervising crews and scheduling equipment. He has overseen 127 full-service SUE projects in NC, SC, OH and VA. His specific experience in telecommunications engineering and construction permits him to manage outside plant contract engineering projects, including construction and documentation for 15 US states. Patterson is also a member of the Project Management Institute.

PETE RAPP

Pete currently works as a specialist for SITECH Mid-Atlantic. SITECH Mid-Atlantic is the Trimble Construction Products dealer for the Carolinas and Virginia. Prior to employment with SITECH, he was a survey manager for Balfour Beatty and Kiewit Western in charge of all construction layout activities. He is licensed in Pennsylvania, Colorado, North Carolina. Pete lives in Wake Forest with his wife and two sons.

Focus:

Machine control systems and the 3D models that drive them.

Below is what I would like to cover (not necessarily in this order).

- 1) Introduction and brief history of machine control systems
- 2) Using the 3d model for machines and standard layout
- 3) Creating a 3d model for "in-house" use and providing as a service
- 4) What makes a good model (best practices)
- 5) Examples of site based models and alignment based models
- 6) Demonstration of modeling

KEVIN REDDING

Kevin Redding attended Western Carolina University and earned a B.S. in Natural Resource Management with a minor in Business Management. Kevin then crossed the state to East Carolina University where he earned a Master's in Public Administration with a concentration in Environmental Policy. He worked for the LandTrust for Central NC in Salisbury for 7 years as their Associate Director. In 2007, he was named the Executive Director of Piedmont Land Conservancy.

Kevin Redding was born and raised in Faith, NC, just outside of Salisbury. He received his Eagle Scout award just before graduating high school. His wife, Lori, is a Waynesville native and works as an Occupational Therapist for Cone Health and Advanced Home Care. They have a son, Boone, and a daughter, Molly Ruth. Kevin's hobbies include growing tomatoes and hot peppers, fly fishing, duck hunting, Duke basketball and spending time outdoors with his family.



DAVID REESE, PE

David Reese, PE, graduated in 1986 from NCSU with a BS in Civil Engineering- Construction Option. He has spent much of his career as a builder and has worked for building, grading, and design-build contractors. He has NC contractor's licenses in heavy highway, sewer, and water. In 2005, David moved to being a full-time design engineer.



DAISY RETTALIATA

Daisy Rettaliata is a Trimble Certified Trainer for the complete line of Mapping and GIS Products. Ms. Rettaliata received a Bachelor's Degree in Geography from the University of Arkansas. She has over ten years experience, including custom training, CAD to GIS data conversion, and high accuracy GIS development.



ANDREW RITTER

Andrew Ritter has been with the North Carolina Board of Examiners since 1993 and has been the Executive Director since 2001. He has served on national committees for ethics, law enforcement, international licensure, education accreditation and licensure qualifications and served as national chair of the MBA Committee for NCEES. Mr. Ritter has a Bachelor of Science Degree in Criminal Justice from Appalachian State University and a Masters in Public

Administration from North Carolina State University with a concentration in finance.



GREG SALLEE, PE

Greg Sallee, PE, is the Chief Operating Officer at McAdams, with experience over more than two decades of management in several diverse technical fields that range from government-classified engineering operations to residential, commercial, and government site work construction. He has acquired a unique skill set that includes a deep understanding of land development construction, estimating, contract administration, and a specialized knack to identify and correct time-sensitive issues in support of optimizing project schedules while minimizing budget impacts. A decorated veteran of the U.S. Armed Forces, Sallee is a proven leader with a broad technical background centered on exceptional service.

MARK SCHUMAN

Mark Schuman, a graduate of Wingate University, is the Western North Carolina Region Education Liaison for North Carolina 811. He has been with NC811 for almost 4 years and teaches Safety and Damage Prevention.



MIKE SHINN

Shinn is also a SUE Project Manager for McKim & Creed. He has over 21 years of experience in the utility location and mapping industry. He draws on a diverse background which, beyond underground utility detection, includes damage prevention and claims investigations for various utility companies. Since firmly establishing himself in the subsurface utility engineering profession, his responsibilities have encompassed all Quality Levels of SUE service for public and private project assignments. He is best known for his hands-on approach to deliver high-quality data. Shinn also serves as a board member with the North Carolina One-Call Center.



KYLE SNYDER

Kyle Snyder is Director of the NextGen Air Transportation (NGAT) Center at the Institute for Transportation Research and Education (ITRE) at NCSU. He has much experience with Unmanned Aircraft Systems, including positions with the NASA Academy in Aeronautics-NASA Dryden Flight Research, Lockheed Martin Aeronautical Systems, Georgia Institute of Technology, Applied Systems Intelligence, and Middle Tennessee State

University as the UAS program manager.

COURTNEY ANNE SPEARS

Courtney Anne Spears, Assistant Major Permits Coordinator in Morehead City for Division of Coastal Management (DCM), acts as the liaison between commenting agencies and applicants. She evaluates if projects meet the intent of CAMA rules. She has worked in state government and with non-profit organizations in the coastal management field for three years. She received her Bachelor of Science in Biology from UNCW and her Master of Coastal Environmental Management from Duke University. Her topic of discussion will be CAMA permit types and application processes and development.



CHRISTIAN STALLINGS

Mr. Stallings holds a Masters in Geographic Information Technology and Graduate Certificate in Remote Sensing and has extensive instruction in Advanced LiDAR Data Processing and Advanced Production Workflow from Penn State. Mr. Stallings is responsible for overseeing LiDAR production operations and the Unmanned Aerial Systems program at McKim & Creed. This includes training staff on all aspects of Unmanned Systems operation, UAS process and product development, LiDAR flight operations, flight planning, calibration

and production, and personally leading process improvements and quality assurance. His responsibilities also include technical oversight and management of the data acquisition and processing phases as well as management of all QC processes associated with acquisition and production.



GORDON S. STROUT, PLS

Gordon S. Strout, PLS, has 34 years of experience in the surveying industry, with a focus on railroad rights-of-way. He has established surveying precedents with CSX Transportation, Norfolk Southern Railway Company and the North Carolina Railroad Company. His rail survey work has spanned the eastern United States from

Canada to Florida, involving hundreds of miles of railroad corridor and thousands of adjoining properties. His passion is working with old railroad deeds and maps, identifying property conflicts and accurately establishing the historical property lines of railroads. He is currently serving as Vice President, Rail, North America at Arcadis in Raleigh, NC.

MICKEY SUGG

Mickey Sugg is the Project Manager with the US Army Corps of Engineers at the Wilmington Regulatory Field Office. He has been with the Wilmington Regulatory Division for 24 years. He will be discussing survey application associated with the Section 404 Wetland Program. He will also address how the Federal Wetland Program operates and how land surveying integrates into that program.

HADIYA SWANN

Ms. Swann is a Senior Analyst within the NC DOI Consumer Services Division's Life and Health Group. In this role she draws upon 15 yrs. of industry experience and a successful track record of delivering sound policy analysis consistent with the state and federal laws as well as a strong acumen of industry principles. Mrs. Swann uses her background in Employee Benefits, Legal Compliance and Marketing to provide policy education and engagement resources to assist consumers in making informed decisions regarding their insurance needs. Her in depth understanding of regulatory compliance in healthcare, market dynamics and the evolution of the industry by the Affordable Care Act is a proven asset in successfully servicing the citizens of NC.



NATHAN TABOR

Nathan Tabor is an entrepreneur and executive/business coach from North Carolina. His business interests include commercial real estate redevelopment, automotive sales, web-based marketing, and strategic partnership facilitation. Since 1999, he has sold over \$150 million dollars of products and real estate.

Committed to a true work/life balance, Mr. Tabor enjoys an active lifestyle with his wife and young daughter. His hobbies include shelling deserted islands, woodworking, giving toys for ChristmasToy Drive.com, and cultivating a personal relationship with Jesus Christ.



DR. KENNETH B. TAYLOR, PG

Dr. Kenneth B. Taylor, PG is the 13th person to serve as the State Geologist of NC and has nearly 20 years of state service. He is the senior technical specialist/advisor to the State Emergency Response Team on earthquakes. He has recorded aftershock sequences in NC, IL, OH, KY and SC to calculate earthquake source parameters, utilized seismic instruments to monitor secondary oil/gas recovery in Texas, and utilized geophysical methods to characterize geological problems. He earned his BS in Geology from UNC Chapel Hill in 1979, his masters in Geology from the University of South Carolina in 1981 and his doctorate in Geophysics from Saint Louis University in Saint Louis, Missouri in 1991.



GARY WILLIAM THOMPSON, PLS

Mr. Gary W. Thompson is the Chief of the North Carolina Geodetic Survey (NC Emergency Management/Risk Management). He has held a professional license as a Professional Land Surveyor (PLS) in North Carolina since 1980. He has served as president of both the North Carolina Society of Surveyors (NCSS) and the National Society of Professional Surveyors (NSPS). He is currently serving as treasurer of the National Council of Examiners for Engineering and Surveying (NCEES), chair of the North Carolina Boundary Commission, and an emeritus member of the North Carolina Board of Examiners for Engineers and Surveyors (NCBELS).

JEFF TODD

Jeff Todd grew up in Annapolis, Maryland and moved to Charlotte after he graduated from high school. Jeff attended Wingate University in Wingate, NC, where he graduated with a Bachelor of Science degree in 1994. Jeff joined IMCI in January of 1994, and specializes in professional liability insurance for Architects and Engineers. He is a licensed insurance property & liability insurance agent and is currently working on his Certified Risk Management and Register Professional Liability Underwriter designations. Jeff is a member of the Board of Directors for the Phoenix Montessori Academy and the Board of Visitors for Wingate University. He and his wife Cindy reside in Troutman and have four children: Blake, Mackenzie, Parker, and Kendall.



STEVE TROWELL

Steve Trowell graduated from NC State University in 1990 with a Bachelors of Science in Biology, with a concentration in Fisheries and Wildlife Science. From 1992 to 1998, he was a Marine Biologist with the NC Division of Marine Fisheries in Elizabeth City, NC. He began working for the NC Division of Coastal Management in the Washington Regional Office in August 1998, just as Hurricane Bonnie hit the coast. Now with 16 years in the Division, Trowell is the Senior Field Representative with extensive knowledge in Coastal Wetland delineation as well as the permitting and regulatory processes of the Division.

DAVID TURNER

David Turner co-founded Turner Land Surveying, PLLC in January 2009 with his spouse and is currently the Vice President of Operations of Turner Land Surveying located in Swannanoa, NC. He is licensed in NC and KY and has earned the following certifications/designations: NCHUB-DBE/WBE, NCDOT-DBE/WBE, Pre-Qualified Sub-contractor, Pre-Qualified Consultant, SPSF, and SBE.



A. RICHARD VANNOZZI, MS, PLS

Mr. Vannozzi is a graduate of the University of Maine where he earned a BS in Forestry w/ High Honors with concentrations in both Forest Management and Surveying in 1984 and an MS in Forestry (with a surveying

emphasis) in 2006.

He is also a doctoral candidate in the Department of Natural Resources (NRE) at the University of Connecticut. His research is focused on GIS Applications and Education for Land Surveyors.

He is registered as a Professional Land Surveyor in Massachusetts.

From 2007-2009 he taught Geomatics and Spatial Measurement and Introduction to Geomatics at the University of Connecticut. From 2003-2007, he taught numerous land surveying courses at The Wentworth Institute of Technology in Boston. Before reorienting his career to focus on surveying education in 2003, Mr. Vannozzi worked in private practice for 19 years, specializing in ancient boundary retracement, boundary dispute resolution and title, boundary and zoning litigation.

He is currently an Assistant Professor in the Civil Technology program at the University of New Hampshire's Thompson School of Applied Science where he teaches various courses in Surveying and Mapping. He is the 2012 recipient of ACSM's Earle J. Fennell Award for distinguished educational contributions to ACSM and the surveying and mapping profession. Mr. Vannozzi is a nationally recognized speaker on all topics surveying and has provided 70+ seminars, workshops or technical presentations across the United States.

He is a Past-President of MALSCE and was recognized as MALSCE's Surveyor of the year in 1998. He has received four (4) Presidential Citations from MALSCE for his work on professional standards (1) and surveying education (3). Currently, he serves on the National Society of Professional Surveyors (NSPS) Board of Directors representing Massachusetts.

MARK WHITE

Mark White, PLS is a Land Surveyor by trade and a technical trainer on survey grade GNSS and robotic total stations. He has worked with GNSS and robotics over the last 26 years with the last 12 years as a full-time trainer and technical support specialist. He has been the training manager for Duncan-Parnell, Inc. the last 5 years. His surveying experience includes building and heavy highway construction, boundary and topographic surveys, GNSS control surveys, and DOT engineering surveys. Mr. White has taught both static and RTK GNSS surveying classes, along with conventional and robotic surveying classes, to a broad range of clients including military personnel, DOT's, municipalities and private surveyors.



A. CORY WILLIAMS, PLS

A. Cory Williams, PLS, brings 19 years of surveying experience and a strong background in field surveys involving railroads. He has traveled throughout the eastern United States performing surveys for CSX Transportation and Norfolk Southern Railway Company. Locally he has been involved extensively in surveys for the North Carolina Railroad Company. He has a broad knowledge of interpreting railroad maps and deeds versus found evidence and in retracing railroad alignments based on historic records. He is the Survey Department Manager at Arcadis in Raleigh, NC.



SCOTT C WILLIAMS, PLS, PPS

Vice President in charge of production and branch office manager at Independent Mapping Consultants, Wilmington, NC office. In September 2015, IMC acquired my previous company Carolina Resource Mapping, where I was the owner and president for over 13 years. I began my career in 1994 as a stereo plotter operator at a small mapping company in Wilmington. I am a licensed photogrammetric surveyor in North and South Carolina and am experienced in map compilation, aerial triangulation,

digital orthophoto production, LiDAR processing and CAD. My experience includes thousands of smaller projects for private engineering and surveying clients and also larger projects for state DOTs, multiple county digital orthophoto projects and statewide mapping projects.

When I'm not working my main interests are powerlifting and the Carolina Panthers. I also play golf when I have the time. I have two sons, Ryan (19) and Colton (15). Ryan is a sophomore at NC State majoring in Graphic Design and Colton is a sophomore in high school here in Wilmington. I have been married to my wife Patty for 21 years and she is a special education liaison for our local county school system.



DAVID B. ZILKOSKI

David B. Zilkoski received a B.S. degree in Forest Engineering from the College of Environmental Science and Forestry at Syracuse University in 1974 and a M.S. degree in geodetic science from The Ohio State University in 1979. He was employed by National Geodetic Survey (NGS) from 1974 to 2009. He served as Director, National Geodetic Survey, from October 2005 to January 2009. As Project Manager of the New Adjustment of the North American Vertical Datum of 1988 (NAVD88) he worked with Federal and State agencies to develop plans to transition from NGVD 29 to NAVD 88.

Since retiring from government service in 2009, as a geodetic consultant, he provides technical guidance on issues related to NGS' modernization of the National Spatial Reference System. Mr. Zilkoski is Chair of North Carolina Geodetic Survey Advisory Committee, a member of the North Carolina 2022 Reference Frame Working Group, and currently serves as a GPS World Survey Scene Guest Editor.

ANDY ZOUTEWELLE

Andy Zoutewelle is a professional land surveyor in Charlotte and is the president of A.G. Zoutewelle Surveyors. His practice includes a wide range of surveying activities.

Mr. Zoutewelle currently serves as Vice Chair of the N.C. Board of Examiners for Engineers and Surveyors. He also serves on the National Council of Examiners for Engineers and Surveyors, including its Professional Surveyors Exam Development Committee (as Chair), the Examinations for Professional Surveyors (“EPS”) Committee, Finance Committee and PLSS Task Force. He also serves as President of the related Colonial States Boards of Surveyor Registration Association. He also serves on the Civil Engineering and Geomatics Advisory Committee of Central Piedmont Community College and is past Chairman. He currently serves on the North Carolina State Boundaries Commission. Mr. Zoutewelle served for 5 years on the Charlotte-Mecklenburg Planning Commission and served as its Vice Chair and as delegate to the Charlotte Regional Transportation Planning Organization. He served for 6 years on the City of Charlotte Zoning Board of Adjustment, including 4 years as Chair. He also chaired the Mecklenburg County Environmental Policy Coordinating Council. He has served as President of the Mecklenburg Surveyors Association and has been active with the North Carolina Society of Surveyors as Long Range Committee Chairman and Director. Mr. Zoutewelle is licensed to practice land surveying in North Carolina, South Carolina and Virginia.

Mr. Zoutewelle received a B.S. degree in Chemistry from Davidson College. After college, he joined Milliken & Company’s Chemical Division in manufacturing. He also spent eight years with his father’s land surveying practice before founding A.G. Zoutewelle Surveyors in 1994.

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