

# 2010 Education Conference

THURSDAY, March 11<sup>th</sup>

## **Ownership Transition for Surveyors & Mappers**

**(3 hours – General)**

This course will focus on professional liability implications, buy/sell agreements and key-man insurance as well as legal implications of transfers of ownership for surveying and mapping professionals. The course format will be a three hour PowerPoint Presentation.

*Instructor Brian Hadar is a Professional Liability Specialist. He has fifteen plus years experience in business management. Mr. Hadar has presented over fifty professional liability loss prevention seminars to regional chapters of AIA Florida and the Florida Engineering Society. He has worked as Controller for a large structural engineering firm and Assistant Controller for a small engineering firm. He also has over eighteen years of insurance experience, specializing solely in professional liability insurance since 1991. Mr. Hadar first began working in the insurance industry in 1988 as a license surety bond agent.*

## **Planning Essentials Every Surveying & Mapping Professional Needs to Know**

**(3 hours – General)**

This course relates to the “practice of surveying and mapping” as defined in Chapter 472, Florida Statutes, because over the course of the next ten years, a huge percentage of the licensed professional surveyors and mappers in the State of Florida will be reaching retirement age. A very important practice management consideration is what will happen to the business when the professional retires. Planning for proper estate administration is essential to making sure there is a smooth business transition, especially where a retiring professional intends to sell a private practice and allow payment for the sale on an installment basis. In addition, most partners or joint owners of a professional practice also have shareholder agreements, member agreements or operating agreements, all of which impose or should impose certain estate planning duties on the owners. This course will provide an overview for the professional to allow him or her to plan in advance for the sale or disposition of the business, either at retirement or in the case of unanticipated death of an owner.

*Instructor Claire Duchemin is a member of The Florida Bar and has been in the private practice of law for thirty years. She earned her undergraduate degree, magna cum laude, in 1977 and her law degree, with high honors, in 1980 from The Florida State University. For the past twenty years, she has been involved in representing surveyors, mappers, engineers, and other design professionals in a variety of legal matters. For the past twelve years, she has represented the Florida Surveying and Mapping Society. She also taught for two years at the Florida State University College of Law. Ms. Duchemin has been involved in litigation at all levels of the state and federal court systems. She is a certified circuit court mediator.*

## **Underground Safety**

**(3 hours – General)**

This course will focus on Florida Statutes Chapter 556, The Underground Facility Damage Prevention and Safety Act and Sunshine State One Call of Florida. Sunshine One Call of Florida is a not-for-profit corporation formed by the Florida State Legislature to administer Chapter 556. The main purpose of Sunshine State One Call is to prevent damages to underground facilities by maintaining a statewide system to notify utilities when excavations are scheduled. Owners of any utility that transport materials using an underground facility are required to be members of Sunshine One Call. Persons that are excavation, or “disturbing the surface of the earth”, are required to notify Sunshine One Call prior to excavation. This seminar will cover the requirements of members and excavators under Chapter 556.

**Instructor Brian Dean** has worked for Sunshine State One Call of Florida since June 2006. Sunshine State One Call serves as the call center for persons excavating in the state of Florida and maintains a primary focus on the prevention of damages to underground facilities. As a Damage Prevention Liaison, Mr. Dean conducts “Call before You Dig” educational sessions for utility groups, contractors, citizen groups, code enforcement, and law enforcement officers along the gulf coast of Florida from Lee to Citrus County. Prior to working with Sunshine One Call, he worked for an environmental laboratory as the Field Operations and Radiochemistry Manager and at the city of Largo as the Environmental Manager. Mr. Dean graduated from the University of South Florida with a degree in Environmental Science and Policy and has long been active in the Florida Water Pollution Control and Operators Association and the Florida Industrial Pretreatment Association.

### **Surveying Railroad Right-of-Way Corridors**

#### **(3 hours – General)**

This course discusses the historical, legal, and practical problems in determining railroad right-of-way location and rights in land beneath the tracks. Railroads have played a major part in the settlement and development of Florida and the United States. The importance of these bands of steel uniting the country was underscored by the powers granted to railroad companies to acquire land rights in whatever way necessary, whether by grant, in fee, or as easements. Surveyors involved with the original location and layout of the rails had a much easier time of it than we do today, as we try to recreate not only original configuration of rails and parcels, but also what kinds of rights the railroad companies may have had in the land beneath their tracks. We will discuss historical, legal, and practical aspects of the problems we face today as we unravel the railroad puzzle.

**Instructor Les Odom, PSM** was born and raised in Pensacola, FL and earned a Bachelor of Mathematics degree from the University of West Florida. After college he began working in the survey industry as a rodman. In 2000 he moved to Texas and worked for a medium sized engineering firm. While in Texas, Mr. Odom became a registered surveyor, authored a basic mathematics course for paraprofessionals and taught survey mathematics for one semester at North Lake Community College in Dallas, Texas. In November 2004, he began working at CSX Real Property as the in-house surveyor overseeing all survey activity for the properties division of CSX Transportation, Inc. and became a registered surveyor in the state of Florida.

### **Survey Tips and Tricks with Civil 3D**

#### **(3 hours – General)**

This course will focus on updating existing data collection, cad, and survey methods used in LDT within the new Civil 3D 2010. Many modifications have been ported into Civil 3D to quickly import data for boundaries, points, automatic line work, and surfaces. This seminar will cover the new workflows while reviewing tips and tricks in the process.

**Instructor Nick Edwin** is an accomplished civil application engineer who conducts training and implementation projects that bring frequent accolades from clients. Extremely proficient with AutoCAD Civil 3D, he uses his professional experience to help clients incorporate best practices to get the best from their software technology.

Mr. Edwin’s diverse skills have been used in the civil transportation, bicycle pedestrian design, GIS mapping, imaging, cartography, and architectural disciplines. His experience and capabilities include completing subdivision design and layouts, completing commercial civil design and layouts, Eminent Domain research and Pre/Post/Cure plan drawing development, preliminary storm water design, signing and pavement marking design, roadway design, preparation of topographic layouts using Land Desktop, and utility adjustment plans using Civil Design. He has strong knowledge of Florida Department of Transportation’s CAD Standard Index, County Standards and Requirements, plans preparation manuals, and National CAD Standards.

### **GPS Error Sources and Network RTK Surveying**

#### **(3 hours – General)**

This course presents all the common (and some not so common) GNSS error sources, how they affect the resulting measurements and where possible, how to remediate the errors to meet individual project error budgets. The intent of this course is to fill the educational gaps that exist within the survey community on one of the most commonly used but least understood tools employed by survey firms for high production work. This course is ideally suited for anyone who works with GPS receivers and is concerned about controlling the quality of data produced by its utilization.

***Instructor Lance André** brings 20 plus years of GNSS experience to eGPS Solutions. He has served as a Product Manager for the SMI Field Products where he was responsible for the design and development of a complete turnkey field survey solution incorporating OEM components from many manufactures. He has also designed and managed the creation/operation of numerous RTK base stations from small cities & counties to the large geographical designs for the Navajo DOT, the Midwest's Freedom Network and eGPS's state of the art RTK Network Operating in Florida, Georgia and surrounding areas.*

*Mr. André also brings an unmatched level of experience in the GIS & Asset Management fields where he was responsible for requirements gathering, software design, strategic client/enterprise relationships and corporate ownership activities at CartêGraph Systems, a top ESRI business partner.*

*Mr. André has presented numerous professional workshops and classes on GNSS technologies (GPS, GLONASS, DGPS, RTK, RTK Networking, and Communication). He has also managed and assisted in the implementation of Asset Management/GIS and GPS solutions for over 300 government organizations including twelve State Departments of Transportation. More recently he was involved in the design of the Navajo Nation Sparse RTK network utilizing technologies ranging from meteorological weather stations to satellite based RTK corrections.*

## **FRIDAY, March 12<sup>th</sup>**

### **FL Statutes Chapter 177, Part 1, Platting (Plat Law)** **(6 hours – Laws and Rules/MTS)**

This course will focus on Florida Statutes Chapter 177, Part I, Platting. Plat Law was enacted in the legislature in 1971 and has been amended on several occasions since then. A major rewrite to the Law was effective in July 1998, with some minor modifications in 1999. This seminar will cover those sets of changes, along with a review of the long standing requirements set forth in the Law.

***Instructor W. Lamar Evers, PSM** is a professional land surveyor registered in Alabama, Florida, Mississippi and North Carolina. He is employed by the Florida Department of Environmental Regulation, Division of State Lands, Bureau of Survey and Mapping as the Mean High Water (MHW) and LABINS Program Manager. As the MHW program manager, his responsibilities include the dissemination of Mean High Water data, establishing procedures for the determination of the MHW line when a study is required and issuance of notices of filing of MWH surveys as required by Chapter 177, Part II, Florida Statutes. Other responsibilities include the review of various surveys dealing with the sale, purchase, use or lease of lands of the State of Florida, management of the LABINS program and the state USGS digital mapping program.*

*Mr. Evers is a Life Member of the Florida Surveying and Mapping Society, a member of the American Association for Geodetic Surveying, American Society of Photogrammetry and Remote Sensing and a Fellow Member of the National Society of Professional Surveyors. He has served as Vice President, President-Elect, President and Immediate Past President of FSMS. As NSPS Governor for FSMS, he served as Secretary and Chairman of the NSPS Board of Governors and the NSPS Area 4 Director. Mr. Evers has served on the Department of Natural Resources Public Land Survey Advisory Board, Collier County Stormwater Management Advisory Board, Golden Gate Estates Land Trust Advisory Committee, Edison Community College Technical Advisory Committee and the Troy University Geomatics Advisory Board.*

He is the Bureau's representative to the Department of Business and Professional Regulation, Board of Professional Surveyors and Mappers meetings. Also, Mr. Evers is the contact for the continuing education needs for the 15 professional surveyors and mappers on staff. Lamar has taught continuing education courses for surveyors and mappers, attorneys and real estate professionals and has been qualified as an expert witness in land surveying matters in state and federal courts.

### **Public Land Survey System**

#### **(6 hours – General)**

This course relates to the “practice of surveying and mapping” as defined in Chapter 472 F.S. in that it instructs and informs the attendee regarding the history of the Public Land Survey System, the different acts pertaining to the Public Land Survey System and how they affect the Public Land Survey System today. Also covered will be restoration of lost and obliterated corners.

**Instructor Mike Garcia, PSM** is a native of Florida with over twenty years experience. His diverse background includes Boundary and Topographic Surveys, Right of Way Mapping, Control Networks and GIS data applications. Mr. Garcia has been employed by Seminole County Government for over 13 years. He is a member of the Florida Surveying and Mapping Society and a Past President of the Central Florida Chapter.

### **Introduction to ArcGIS for Surveyors**

#### **(6 hours – General)**

This course relates to the “practice of surveying and mapping” as defined in Chapter 472 F.S. in that it instructs and informs the attendee regarding the application of the ESRI ArcGIS software program in the development and creation of GIS mapping. This course covers fundamental GIS concepts as well as approaches on how to efficiently utilize the existing and custom tools in ArcGIS for the creation of a dataset useful for the surveyor.

**Instructor Frank Conkling, PSM** has been a licensed surveyor in Florida since 1984. He has been mapping since 1974 and has been involved in GIS for over twenty of those years. He worked for the John D. and Catherine T. MacArthur, (a large landowner in Florida) for twenty-four years and served as their Land Information Officer and GIS Administrator before his departure in 1998. His firm, Panda Consulting, was formed in 1998 to assist clients in efficiently implementing and integrating GIS technology into their corporate and organizational culture. Mr. Conkling has taught surveying and mapping at Palm Beach Community College and has held GIS training classes and workshops throughout the Southeastern United States. He is a member of the Florida Surveying and Mapping Society, Florida Association of Cadastral Mappers and the American Congress on Surveying and Mapping.

**Instructor Rick Pryce, PSM** began his surveying career in 1972. During the past thirty-six plus years, he has worked in all aspects of the land surveying & mapping profession. Mr. Pryce started his field experience as a tail chainman to head chainman and then moved up from instrument man to party chief. He has extensive experience and knowledge in all field, office and computer survey operations, and has specialized training in PLSS retracement surveys, legal research and resolving boundary disputes. He has performed survey and mapping projects in 41 Florida Counties.

Mr. Pryce worked for Rowe, Legg & Assoc, then R. P. Legg & Associates for twenty years (1972-1992), becoming assistant vice president and manager of the CADD and Drafting department where he specialized in subdivision design, legal descriptions, boundary surveying, platting and GIS base mapping. From 1992 through 1997 Mr. Pryce ran his own successful surveying company, performing most of the surveying for the Seminole Tribe on their seven existing reservations within Florida. He assisted the Tribe in mapping over 100,000 acres of their land holdings and instructed several of their staff in the use of GIS. Mr. Pryce rejoined Miller Legg & Associates in 1997 when they offered to buy his company, and was brought back to help form and be an integral part of the New GIS Department and to assist in the integration of Survey and GIS as a new service (1997-2006). As GIS Coordinator / Service Manager and Senior Surveyor his responsibilities included GIS marketing research, development, client negotiations, presentations, QA/QC, and project management of resources and staff on all GIS projects within

MLA's five Florida offices. In 2006, Mr. Pryce joined Craven Thompson & Associates, Inc. as the Vice President of Surveying & G.I.S. He has continued on the new technology path by acquiring a Leica 3D Laser Scanner and has instituted High Definition Surveys into their everyday work schedule as well as the integration of GIS, GPS and Lidar applications for their Engineering & Survey projects with several municipalities.

## SATURDAY, March 13<sup>th</sup>

### **Minimum Technical Standards** **(6 hours – Laws and Rules/MTS)**

This course relates to the “practice of surveying and mapping” as defined in Chapter 472 F.S. in that it instructs and informs the attendee regarding minimum technical standards (MTS) as set forth in Florida Administrative Code 61G17-6. The public must be able to rely on the survey product produced by a surveyor and mapper. In meeting this objective, surveyors and mappers must achieve minimum standards of accuracy, completeness and quality. The course includes instructions on the practical application of MTS in meeting that objective.

***Instructor B. Gregory Rieth, PSM*** started in the surveying field at what began as a summer job. He was first hired in 1976 to help on a survey crew of J. Patrick Moore, L.L.S. in Corning, New York working on a drainage study. Someone was needed to climb into storm and sanitary manholes to measure pipe sizes, help get invert elevations, etc. At that time, he thought it was the best job he ever had – making \$2.30 per hour. After nine years of surveying in New York, Mr. Rieth moved to Florida. He worked for three firms: DMK Group, Inc., Bishop & Associates, and Landry & Esber before arriving at his present firm Strayer Surveying & Mapping, Inc. in 1996. He has held several positions at the Chapter level of FSMS, including Treasurer of the Manasota Chapter from 1998-2000, President-Elect 2000-2001, and President 2001-2002. On the state level, he served as District 5 Director 2002-2006 and Vice President 2007-2008.

***Instructor Robert B. Strayer, Jr., PSM*** is a Florida Professional Surveyor and Mapper with over twenty-eight years experience in land surveying. He attended school at Manatee Community College and the University of Florida. He is President of Strayer Surveying & Mapping, Inc. in Venice and Ft. Charlotte, Florida. Mr. Strayer has extensive surveying experience in boundary, topographic, ALTA/ACSM, construction, engineering design, floodplain, mortgage, and other specific purpose surveys. Mr. Strayer has presented survey topics over the years to such groups as Venice High School, Sarasota County Home Builders Assoc., Venice Area Chamber of Commerce, Venice Area Board of Realtors, Venice/Englewood WCR, and local Real Estate offices. He has been a member of FSMS since 1989 and has held several officer positions. Mr. Strayer was Manasota Chapter Vice President in 1997, Chapter President in 1998, District 5 Director in 1999-2002, and State Secretary 2002-2003.

### **Elevation Certificates and the Community Rating System** **(3 hours – General)**

This course relates to the practice of surveying and mapping as defined in Chapter 472, F.S. in that it instructs and informs the attendee the purpose of the elevation certificate, how to complete the certificate. In addition, recent changes to the Community Rating System will be discussed and how a Vertical Program is rated.

***Instructor Tom Brownell, PSM*** is a native of South Florida and a partner and Executive Vice President for E.R. Brownell & Associates, Inc. He graduated in 1971 from Florida Atlantic University with a Bachelor of Science in Engineering. In 1975 he was licensed by the State of Florida as a Professional Land Surveyor. Mr. Brownell has been a member of both FSPLS/FSMS and ACSM/NSPS since 1975. He was awarded the membership grade of Fellow Member in 2004 and received the Jim Bennett Board Member of the Year Award in 2006. He is an active member of the Miami-Dade Chapter of FSMS and has held numerous officer positions at the Chapter level, including two terms as Chapter President 1980-1981 and 2001-2002 and Chapter

Treasurer 2008-2009. Mr. Brownell has served as a District 7 Director for five terms (1997-2001 and 2002-2003) and served as Treasurer of FSMS from 2003-2008.

**Instructor Robert W. Jackson, Jr., PSM** is the Senior Project Manager at Calvin, Giordano & Associates, Inc. He has forty plus years of experience in all phases of land surveying. He has been a licensed Surveyor since 1985. He also serves as the City of Weston and the City of West Park FEMA Administrator. Mr. Jackson is highly active in professional surveying organizations. He has been an instructor for the Society teaching Florida Laws, a required six-hour course. He has helped organized golf tournaments at the Chapter level raising approximately \$10,000. Mr. Jackson introduced Mr. Dwight Foster with Florida Training Services to FSMS which as a result now has vo/tech schools in both in Broward and Palm Beach Counties that further educate our technical personnel. He has been involved in the Planting Seeds Program in Broward County, introducing the students to the world of Geomatics. He has met with several Law Enforcement agents in the Southern part of Florida along with the equipment manufacturers attempting to eradicate the theft problem. Prior to CGA, Bob worked for the Florida Department of Transportation as a rodman, instrument man, party chief and head of the Right-of-Way (R/W) Engineering Department Calculation Section. He is the CGA representative for the Broward Area Prestige Club, an organization that helps children and adults in need. He also volunteers at Gilda's Club, an organization for children with cancer and their families.

**Instructor Michael J. Whitling, PSM** is the County Surveyor for Miami-Dade County and has been employed in surveying for Miami-Dade County for thirty-eight plus years. He holds degrees in Land Surveying and Civil Engineering from Miami-Dade College and has been a licensed Surveyor since 1989. He has served as the President of Florida Surveying and Mapping Society, and prior to that position was Vice-President for three years, Director for eight years and has served as President of the Miami-Dade County Chapter for three years. Mr. Whitling teaches Surveying and Autocad for Surveyors at the University of Miami, Florida International University, and Miami-Dade College. He has been a technical instructor for Florida Surveying and Mapping Society for many years. Mr. Whitling is also certified as an instructor of insurance education in the area of Surveying Legal Descriptions. He has written many articles for The Florida Surveyor which have been published in other state association publications as well. He has received the following awards: H. O. Peters Surveyor of the Year, Jim Bennett Board Member of the Year, Professional Development of the Year, and Perry C. McGriff Outstanding Professional Award for Civic Contribution.

### **Basic Hydrographic Surveying** **(3 hours – General)**

This course will focus on the principles of Hydrographic Surveying. The seminar will begin with the basic theory of hydrographic surveying then progress to different techniques of obtaining hydrographic survey data and closing with the different types of hydrographic surveying equipment. The course will be based on the principles outlined in the USACE Hydrographic Survey Manual EM-1110-2-1003.

**Instructor Russell Hyatt, PSM** is a Florida Professional Surveyor and Mapper with over twenty years of experience. He is a graduate of the University of Florida with a Bachelor's Degree in Surveying and Mapping. Mr. Hyatt has worked in the private sector in Florida since 1990 and is currently the Vice President of Hyatt Survey Services, Inc. He is a member of Florida Surveying and Mapping Society, the Hydrographic Society of America and the American Congress on Surveying and Mapping. Mr. Hyatt has performed hydrographic surveys for Federal, State and Local governments as well as the private sector since 1990. During this time he has been a survey contractor for the USACE – Jacksonville District for more than twelve years.

### **Applications of GIS in Government** **(3 hours – General)**

This course teaches the use of Geographic Information Systems (GIS) focusing on how the software technology, the data configuration, user skills and professional knowledge work together to create successful projects. Applications of GIS will focus on Government uses that are common throughout Florida and pertinent to Professional Surveyors and Mappers. This course will include examples and walk-through exercises using GIS software.

**Instructor Tom Tibbitts, PSM** is a certified GIS Professional (GISP) with over seventeen years of experience. Mr. Tibbitts is a graduate of the University of Florida with a Bachelor of Science in Geomatics (1995). He is the Assistant GIS Manager with St. Johns County and has fourteen years experience within county government developing Geographic Information Systems projects including Parcel Mapping, Asset Maintenance, LiDAR, Orthophotography, Geodatabase Administration, Application Development and GIS Education. Mr. Tibbitts has presented at the ESRI International User Conference, the ESRI Surveying Summit, the FSMS Education Conference and the ESRI Southeast Regional Users Conference. He is an active member of the Florida Surveying and Mapping Society and other Surveying and GIS organizations.

### **Laser Scanning**

#### **(3 hours – General)**

This class will be an open format covering the whole range of 3D laser scanning for surveying applications. The first section will cover the basics of laser scanning using airborne LiDAR systems and their practical applications for land surveyors. The second section will cover the QA/QC and reports for the data. The third section will cover ground based 3D laser scanning and the newer mobile scanners. As part of the class, there will be a review of data sets from each system compared to standard field results and a review of some of the problems faced and how to compare data from different units.

**Instructor Allen Nobles, PSM** is the president and owner of the Surveying and Engineering firm of NCG Inc. with offices located in North Florida and South Georgia. He has been working with survey grade mapping systems for over twenty-five years and with LiDAR systems for the past ten years. He is also a member of the ASTM E-57 Standards Committee writing the national standards for terrestrial scanning and has been a speaker at the industry's leading user's group meetings, SPAR and Leica Users Group.