

Mr. Dave Doyle joined the National Geodetic Survey in 1972 and held the position of chief geodetic surveyor at his retirement in January, 2013. He was responsible for the development, technical design, and management of plans and programs that enhance the United States National Spatial Reference System. Mr. Doyle began his career as a geodetic surveyor in the U.S. Army in 1967 and served on numerous survey campaigns until completion of his military service in 1970. From 1970 until 1972, he worked for a private surveying company near Washington D.C. where he was responsible for completing boundary, topographic, and engineering surveys while he pursued undergraduate studies in geodesy, cartography, and mathematics at the George Washington University. During his time at NGS, his experiences included all phases of geodetic triangulation, astronomic positioning, leveling, GPS data collection, data analysis, datum transformations, network adjustments, and data publication. Mr. Doyle's activities have included extensive efforts on the development and implementation of the North American Datum of 1983, the North American Vertical Datum of 1988, the Puerto Rico Vertical Datum of 2002, and the Virgin Islands Vertical Datum of 2009. He has also provided technical support to various countries for the modernization of national and regional geodetic reference systems in Caribbean and Central America, Africa, and the Pacific. Mr. Doyle's activities include 35 articles on geodesy and geodetic surveying in national and local surveying publications and he has conducted more than 420 workshops and seminars detailing the various aspects of geodesy and the National Spatial Reference System. Mr. Doyle continues to support education in geodesy for surveyors. Mr. Doyle is a past president of the American Association for Geodetic Surveying, a Fellow Member of the American Congress on Surveying and Mapping and a charter member of the Geographic and Land Information Society. He has also served on the U.S. delegation to the International Federation of Surveyors. Mr. Doyle is an active member of the American Association for Geodetic Surveying, the District of Columbia, Maryland, and Virginia Professional Surveyors' Associations and an [Honorary Life Member of the Burt & Mullet Chapter.](#)

The Burt & Mullet Chapter is at your Service:



The Burt & Mullet Chapter is recognized as Michigan's premier seminar presenters. We are both privileged and honored to have the opportunity to again host NGS's Mr. David Doyle for most certainly the best presentation available in America on practical geodesy for the field surveyor as well as Mr. Brian Abbott P.E. and Mr. Paul Schwimmer P.S. who are both riveting speakers regarding hydrographic surveying.

Registration

So we may be prepared for the number of participants, we kindly request that you send a check and your company's seating requirements. This will ensure enough seats and meals. We are limited to 100 attendees, so please get your checks in early to reserve your seats.

[Please RSVP by 20 January 2017](#)

Registration Fee

Due to the expenses related to this seminar, there is a \$185.00 fee for this Seminar. Lunch included.

Novi, Michigan

Friday 03 February 2017
Sheraton Hotel Novi
21111 Haggerty Road
Novi, Michigan 48375
Tele: (248) 349-4000
8:00 am – 5:00 pm

**The Burt & Mullet
Chapter Presents:**

By Popular Demand:

**“Coordinates, Datums,
and Practical Geodesy
for the Field Surveyor”**

**Friday
03 February 2017**

**Presented By the
Master Instructor:**

**Mr. David Doyle
Chief Geodetic Surveyor
National Geodetic Survey
(Retired)**



Top of the Washington Monument , D.C.

**Mr. David Doyle
America's Master of
Practical Geodesy**



Brian Abbott, P.E., M.S.

Brian Abbott, M.S. P.E., is the President of Nautilus Group, located in Haslett, Michigan. Mr. Abbott served as an officer in the U.S. Marine Corp and is a world renowned Hydrographic professional who has been involved in numerous underwater mapping and salvage projects worldwide for the past 30 years including: the mapping of the Titanic wreckage field, the search for Shackleton’s “Endeavor” in the Antarctic Ocean, and a list of other projects too numerous to mention. **Mr. Abbott is a primary supporter of the Burt and Mullet Chapter.**



Paul Schwimmer, P.S.

Paul Schwimmer, P.S. is the President of Arbor Land Surveying located in Ann Arbor, Michigan. Mr. Schwimmer served in the U.S. Army Special Forces and has been involved with locating and repatriating missing airmen, soldiers, sailors, and marines on foreign battlefields for the past 20 years. **Mr. Schwimmer is a primary supporter of the Burt & Mullett Chapter.**

Seminar Outline

07:30 am – 8:00 am Registration
8:00 am – 8:10 am Greeting from Burt and Mullet President – Brent Dankenbring

The U.S.A’s Blue Ribbon Presenters

Mr. David Doyle
Chief Geodetic Surveyor (Ret.)

8:10 am – 10:00 am WGS84 / GRS80 :
Definition of a reference ellipsoid and its relationship to the datum.

10:05 am – 11:50 am Practical Geodesy :
Development of the geodetic measurement system.

11:50 am – 1:00 pm Lunch (Provided)

1:00 pm – 1:45 pm Hydrographic Methods:
Mapping The Battle Field Lagoon of Tarawa Atoll – Gilbert Islands.
Paul Schwimmer, P.S.
Brian Abbott, P.E.

1:45 pm – 2:45 pm. Advances in space-based positioning and their impact on the National Spatial Reference System

2:45 pm – 3:00 pm Break

3:00pm to 4:30 pm New NGS 2022 Reference Framework

4:30 pm – 5:30 pm Questions / Answers

All attendees will be receiving a certificate of attendance for this valuable seminar.

Email: johnsc75@ferris.edu

Please fill out this form with your company seating requirements and return to the address below:

Name

Company

Address

of Seats Required

City/State/Zip

Work Phone Number

Registration Fee

Fees for this seminar are \$185.00 per person. The proceeds of which will go directly to the Burt & Mullett Chapter.

Please make checks out to:

Burt and Mullett Chapter

Please return form and remittance to:

Mr. Christian Johnson
Vice-President – Burt and Mullett Chapter

5030 Glen Bluff Dr.
Sand Lake, Michigan 49343-8728

Telephone: (616) 550-0164 (or)
Telephone: (313) 670-3395

Please direct questions to Mr. Christian Johnson at the email address below and he will answer them in a rapid fashion:

Email: johnsc75@ferris.edu