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Knud E. Hermansen is an attorney, professional engineer, and professional land surveyor licensed in several states. His education includes a Ph.D. in Civil Engineering from the Pennsylvania State University and a J.D. (Doctorate in Law) from West Virginia University. Currently, Knud is a Professor at the University of Maine and operates a consulting firm offering surveying, engineering, and legal services. Professional membership includes the American Congress on Surveying and Mapping, National Society of Professional Surveyors, American Society of Civil Engineers, National Lawyers Association, and several state survey societies and bar associations. He is an author of the books titled: *Boundary Principles and Procedures for Pennsylvania and Handbook of Annotated Forms for the Surveying Practice*.

Walter G. Robillard is a graduate lawyer and a professional surveyor registered in four states. He has also earned three other college degrees in law and public administration. He is an attorney-at-law and a member of the Georgia Bar. He practices in the areas of land disputes, title problems, survey negligence and contract problems. His 49 years experience has taken him to all 50 states and numerous foreign countries. He has served as a commission chairman and a delegation head to the Federation International Geographic in Montreaux, Switzerland, and Brighton, United Kingdom. He serves as an adjunct professor at Mercer University in Macon, GA, and New Mexico State University in Las Cruces, NM. He has co-authored the college textbooks, *Boundary Control & Legal Principles and Evidence* & *Procedures for Boundary Location* and the legal research book, *Clark on Surveying & Boundaries*. Walt has testified in both Federal and State courts as an expert in the areas of boundaries, law, surveying, negligence and various other aspects of surveying.

Robert C. Shelton, Jr. is a graduate of Seton-Hall University School of Law. While in private practice, he held the position of first Assistant Prosecutor of Sussex County. In 1973 he was elected to the General Assembly where he served on the Banking & Insurance Committee and Chairman of the State Government Interstate & Federal Relations Committee. He was appointed to the County Court of Sussex County in 1976 and was elevated to the Superior Court in 1977 where he presided over both Civil and Criminal areas. He resigned from the bench in 1985 to return to private practice and is presently Of Counsel to the firm of Walder, Sondak & Brogan of Roseland, NJ. He has been associated with Walt Robillard in providing continuing education to Land Surveyors since 1986. Bob is an adjunct professor at County College of Morris, in Morris County, NJ, where he lectures on Jurisprudence.

Dennis Mouland is currently the Bureau of Land Management's Cadastral Training Coordinator, managing their cadastral survey educational program at the National Training Center in Phoenix, AZ. He also teaches outreach classes through the Department of Civil and Architectural Engineering at the University of Wyoming. He is a registered professional surveyor in Arizona, New Mexico, and Colorado. He has a Bachelor of Arts degree in Organizational Management, and has been in the surveying profession since 1972. His experience is evenly split between the private sector, including his own surveying firm, and federal government employment. In addition to having over 200 technical articles published in the U.S. and Canada he was a contributing author to the textbook, *"The Surveying Handbook"*, and authored "Ethics for the Professional Surveyor" in 1996, now in its second printing.

David Lee Ingram has been licensed for over 25 years and holds survey licenses in West Virginia, Virginia and Maryland. He has a degree in Economics and Business Administration and has held numerous positions in State and national organizations including several years as chairman of the MSPS Ethics Committee. Mr. Ingram is managing partner of the firm Ingram-Hagen & Co. LLC, a firm offering surveying, engineering, land planning and consulting forestry services.

David Doyle is a Senior Geodesist in the Spatial Reference System Division, National Geodetic Survey where he is responsible for technical standards for quality control of GPS and leveling field operations programs, and provides technical assistance on geodesy to International, Federal, State and local surveying and mapping agencies. Mr. Doyle has conducted more than 180 workshops and seminars detailing the fundamental elements of Geodesy, including datum definitions and transformations, use of State Plane Coordinates, and development of geodetic networks to support Geographic Information Systems. Mr. Doyle is a Past President of the American Association for Geodetic Surveying, a Fellow member of the American Congress on Surveying and Mapping, he is a Charter member of the Geographic and Land Information Society, and the District of Columbia Association of Land Surveyors, and is active in the Maryland Society of Surveyors.

William Henning is a Registered Professional Land Surveyor in Maryland with over 38 years of active experience in all phases of surveying technology. During the later part of his 31 year career with Baltimore County DPW, he worked closely with NGS geodetic experts and County GIS managers in helping to start the County's GIS system with the proper geodetic basis and in correctly integrating data into the GIS database. As an NGS cooperative partner, he helped Baltimore County to contribute to the NGS-NGS 58 guidelines for GPS derived ellipsoid heights and the draft guidelines for GPS derived orthometric heights. He was also solely responsible for all GPS geodetic control planning, data acquisition, processing, adjustment and dissemination for the County's Primary Control Network. Recognizing the need for infrastructure data collection and management, he initiated a GPS for GIS data acquisition program in several County departments. To further this goal, he spearheaded the installation of a continuously operating GPS base station to provide differential corrections for all GPS users in the region. He is the immediate past President of the American Association for Geodetic Surveying (AAGS), a member organization of the ACSM and past president of the Mid Atlantic GPS User's Group. He has presented numerous sessions and workshops at national, regional and local conferences and has been published in *Surveying and Land Information Science (SALIS)*. Mr. Henning is currently employed with the National Geodetic Survey, where he is a real time kinematic (RTK) specialist.

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- Videotapes/DVD
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Ethics for the Professional Surveyor

Dennis Moulton

4 CPCs

This course for the Professional Surveyor is a guided group discussion on ethical issues in the technical, professional, and administrative areas. This course will address your ethical background, current issues in the profession, and the role of the professional societies in establishing and then enforcing ethical standards.

The "Art of Training" for Mentors

Dennis Moulton

4 CPCs

This course will address the basic techniques used in training people in technical subjects such as surveying. The course will assist you in analyzing whether you are "trainer" material, what your personal learning and teaching styles consist of, and the special challenges we face when training adults. The course then examines the use of technology in training, and the impacts of culture, background, and gender in the process of learning. This is a practical course for those who want to do more hands-on training as part of mentoring newer surveyors.

Early Surveying Techniques and the Evolution of Surveying Equipment

David Lee Ingram, RLS

4 CPCs

This 4-hour presentation examines early surveying techniques and the evolution of aids to surveyors including calculating devices, distance measurement equipment, and directional devices. A sampling of the topical areas to be discussed include:

- A) Early methods of performing surveys in the field
- B) Methods of performing calculations including examples of early mathematical tables, graphic methods, and the evolution of calculating devices and machines.
- C) Various methods of measuring distance and the evolution of measurement tools.
- D) Various methods of determining direction and the evolution of directional devices.
- E) Other miscellaneous tools of the surveyor.

The course will review actual equipment, text diagrams & tables, original patent diagrams, actual survey work, pictures of surveyors at work, and numerous other items that depict the life and work of the surveyor of yesterday.

Local Perspectives on Using National Datums and Models

David R. Doyle & William E. Henning

4 CPCs

With the coming readjustment of the North American Datum of 1983 (NAD 83) and new releases of national geoid models, such as Geoid 04, many issues need to be addressed by today's surveyors to give them a workable understanding of the three dimensional coordinate systems with which they will work. This course will give national and local insights into the use and misuse of these reference frames and show how the new datum readjustment, NAD 83 NSRS, and the newer geoid models will impact their livelihood.

Old English Law and the Modern Surveyor

Walter G. Robillard, Esq., RLS and Judge Robert Shelton (ret.)

8 CPCs

This course will look back to the foundations of our American common law, as it was developed and the subsequently evolved in England, and how ultimately it developed into the modern American law, both common and statutory. Bob AND Walt will discuss how, before there was any common case law, that how the early English common law developed as needed to meet the needs of an expanding society, and then how ultimately it was brought across the oceans to be adopted and now accepted as the law of our land.

Surveying Standards in Practice

Knud E. Hermansen, P.L.S., P.E., Ph.D., Esq.

4 CPCs

This course will cover the creation, purpose, establishment, and the influence of standards on professional practice. The course objectives are to give the practitioner a basic understanding of practical application of standards; exposure to various standards; the ability to analyze situations and conform to mandated standards; the experience to apply or waive standards in practice without increasing liability exposure; the knowledge to define proper personal standards; the ability to articulate and communicate a rational or logical explanation for the standards chosen and their application; an exposure to the wide scope of standards in practice; and the foundation for many of the common standards relating to research, monuments, documenting, and field work.

Riparian Boundaries

Knud E. Hermansen, P.L.S., P.E., Ph.D., Esq.

4 CPCs

Boundaries along streams, ponds, lakes, tidal water, etc. are frequently encountered by surveyors. The location of the boundaries going into and along the water boundary are frequently vague and litigated. This video will introduce pertinent considerations and examine the various options available to resolve the ambiguity.

Justice Cooley of Michigan Meets Justice Lumpkin of Georgia

Walter G. Robillard, Esq., RLS and Judge Robert Shelton (Ret.)

8 CPCs

This course will examine and discuss two contemporary Supreme Court Justices: Justice Thomas Cooley of Michigan and Justice Lumpkin of Georgia. Separated by hundreds of miles, these two justices rendered nearly identical decisions relative to surveying and land boundaries. Numerous decisions rendered by these two justices will be discussed and the importance of these decisions to the surveyor of today will be examined.

Course Outline

1. Who Were Justices Cooley & Lumpkin?
2. The Cooley Doctrine Explained
3. Decisions Rendered by Each and Other Decisions
4. Understanding Diehl v. Zanger, and Other Decisions
5. Understanding Riley v. Griffin, and Other Decisions
6. Applying the Principles to the Surveyor of Today
7. Is it Negligence not to Follow Their Advice?

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CONTINUING EDUCATION:

Each course has been approved for the indicated number of A-Level CPCs. All participants will receive a certificate documenting completion.