

Résumé
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CONTACT

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GENERAL

A Licensed Professional Engineer, Licensed Professional Geologist, and Attorney at Law with thirty-six years technical experience in civil, environmental, and geological engineering and consulting.

EDUCATION

Barry University (Orlando, FL): Juris Doctor *cum laude (valedictorian)*, 2004.

Virginia Polytechnic Institute (Blacksburg, VA): Master of Science, Geology, 1972.

North Carolina State University (Raleigh, NC): Bachelor of Science with High Honors, Geology (Engineering Minor), 1969.

Continuing education in civil engineering, environmental engineering, petroleum engineering, drilling and production engineering, geology, groundwater hydrology, contract management, and law. (Various continuing education fora, 1969-2005)

LICENSES AND CERTIFICATIONS

Member of the Bar: FL
Licensed Professional Engineer (Civil): AL, AR, FL, GA, LA, MS, NC, OK, VA
Licensed Professional Geologist: AL, FL, GA, NC, TN
Certified Professional Geologist: American Institute of Professional Geologists

EMPLOYMENT ENGAGEMENTS

Independent Consultant (2000-Present) – Civil, Environmental, Petroleum, and Geological Engineering Support to the Legal Profession.

Vice President, HSA Engineers & Scientists (1999- 2000);

Vice President, CRA Services (1997-1999);

Senior Vice President, Director, and Equity Shareholder, G&E Engineering, Inc. (1988-1997) - Titusville, Florida office (These comprise the same engagement; Mr. Hayman and his partners sold G&E to the CRA organization which later transferred the Titusville office to their allied HSA company.)

- Chief geologist and geotechnical engineer
- Corporate Quality Assurance and Technical Training officer
- Project Manager and/or Engineer/Geologist of Record for major geological/geotechnical projects
- Contract Manager for multi-million dollar master contracts.

Senior Engineer/Geologist, Head of Environmental Engineering Section, Edward E. Clark Engineers/Scientists, Inc. - Consulting Engineers: Miami, FL (1985-1988)

- Technical Director and Quality Assurance reviewer for all environmental and geological projects
- Project Manager and Engineer/Geologist of Record for major geological/geotechnical projects

Vice President and Chief Engineer, Wingerter Laboratories, Inc. - Material Testing, Geotechnical Engineering: Miami, FL (1982-1985)

- Lead geotechnical engineer and Engineer-of-Record for foundation designs for mid- and high-rise structures
- Design and specifications for earthwork projects
- Engineer-of-Record for soil and material testing

Vice President and Manager of Technical Operations, Palmer & Baker Engineering, Inc. - Municipal and Industrial Engineering: Mobile, AL (1981-1982) [Subsidiary of Hayes, Seay, Mattern & Mattern]

- Quality Assurance reviewer for plans and specifications
- Overseer and coordinator of engineering project managers
- Lead geotechnical engineer

Project Manager and Staff Engineer/Geologist, Hayes, Seay, Mattern & Mattern - Architects-Engineers-Planners: Roanoke, VA (1974-1981)

- Field investigations for dam sites, building foundations, highway alignments, etc.
- Water supply development studies
- Landfill siting studies
- Mine drainage and inflow studies
- Lead design team for underground radioactive waste disposal facility

Field Production Engineer, Shell Oil Company: New Orleans, LA (1969-1974)

- Field logging and core evaluation on exploratory and production oil and gas wells
- Design of workovers and remedial treatments for deficient production wells

MEMBERSHIPS

National Society of Professional Engineers
Florida Engineering Society
American Institute of Professional Geologists
Florida Bar Association – Environmental & Land Use Law Section
American Bar Association

PUBLICATIONS

Hayman, J. W., 2005. *Regulating Point-Source Discharges to Groundwater Hydrologically Connected to Navigable Waters: An Unresolved Question of Environmental Protection Agency Authority Under the Clean Water Act.* 5 Barry L. Rev. 95.

Hayman, J. W., R. G. Adams, and R. B. Adams. 1993. *Foundation Piling as a Conduit for DNAPL Migration.* Proceedings of the 86th Annual Meeting, Air & Waste Management Association, June 14-18, Denver, CO.

Hayman, J. W., R. B. Adams, G. L. Rexroad, and R. L. Eisenbach. 1991. *Remediation of TCE in the Surficial Aquifer at the Kennedy Space Center, Merritt Island, Florida.* Proceedings of the 84th Annual Meeting, Air & Waste Management Association, June 16-21, Vancouver, B.C.

Adams, R.B., J. W. Hayman, R. L Eisenbach, and T. E. Dove. 1990. *Leaking Underground Hydrocarbon Storage Tanks – A Worldwide Problem Requiring Site-Specific Solutions,* Invited Paper presented at First USA/USSR Joint Conference on Environmental Hydrology and Hydrogeology,

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- Leningrad, USSR Jun 1990. Included in Peer-reviewed publication, "Hydrological Science and Technology" Volume 5, No. 1-4.
- Hayman, J. W., R. B. Adams 1988. *Anaerobic Biodegradation of Hydrocarbons in Confined Soils Beneath Busy Places: A Unique Problem of Methane Control*, Proceedings of Petroleum Hydrocarbons and Organic Chemicals in Groundwater, Volume 1, Page 383, NWWA and API Conference, November 9-11, Houston, TX.
- Hayman, J. W., 1988. *Groundwater Monitoring Wells: Friend or Foe?* Journal, Florida Engineering Society, January.
- Walker, W. L., J. W. Hayman, et. al., *Physical Potential for Disposal of Industrial Wastes by Wells in the Southeast U.S.*, VA Water Resource Research Center, National Symposium on Ultimate Wastewater Disposal, 1973.

PROFILE OF PROFESSIONAL ACTIVITIES

Contract and Office Management

- Contract Manager for \$8 million Basic Ordering Agreement with NASA Kennedy Space Center.
- Project Manager for engineering design and environmental science projects ranging from \$250,000 to over \$1 million.
- Responsible for quality control on engineering reports and designs for an 120-employee, \$11 million/year firm.
 - Authored 500-page Technical Procedures Manual for G&E Engineering/CRA Services.
 - Created and administered in-house technical certification program at G&E Engineering.

Representative Forensic and Legal Support Services

- United States Court of Claims, Washington, D.C. (1984): Performed onsite investigations and evaluations of a Section in the eastern Everglades owned by Florida Rock Industries (FRI), whose initially approved permit for quarrying was later denied by the Corps of Engineers following FRI's purchase. In a suit claiming an administrative taking, provided expert testimony in deposition and in court to then Chief Judge Alex Kozinsky on subsurface conditions and quality of the bedrock leading to a \$10 million award by the court to FRI.
- United States District Court, Southern District of Florida, Miami, FL (1984-85): For Metro-Dade County suing a design engineer, performed field investigations and provided expert testimony in deposition and court to Judge Spellman on subsurface rock and groundwater conditions.
- Miscellaneous expert testimony in deposition and/or court in the Circuit courts of Dade and Broward Counties, Florida, (1982-1988): Performed investigations and presented expert testimony in numerous civil suits involving foundation conditions, groundwater conditions, engineering fills and compaction, settlement, and subsidence. Work evenly divided between the plaintiff and defendant posture.
- Due-Diligence investigations, southwest Florida oil production properties, (1992): For a potential purchaser's counsel, performed environmental audits and investigation of over 200 oil production sites in Collier and Lee Counties. Prepared due-diligence reports and expert testimony on environmental status of these aging oil fields.
- Co-consultant with Dr. John Cherry, Waterloo Centre for Groundwater Research, on investigation of chlorinated solvent contamination in Cocoa, Florida. Presentation and argument of conclusions with regulatory agencies (FDEP and USEPA). Preparation for administrative hearing. Deposition. Assisted counsel in preparation for court.

Environmental Engineering/Hydrogeology

- Engineer-of-Record for closure of Launch Pad 39-A as a hazardous waste generating facility, Kennedy Space Center (1986).
- Contract Manager and technical director for RCRA activities at the Wilson Corners Solid Waste Management Unit (SWMU) at the Kennedy Space Center, Florida. Projects from 1988 to 2000 included:
 - Site assessment (RCRA Facility Investigation; FL Contamination Assessment Report-CAR)
 - Remedial design justification (RCRA Corrective Measures Study; FL Remedial Action Plan)
 - Technical consulting during remedial system construction and monitoring.
 - Participation in public meetings as required by RCRA.
 - Preparation of RCRA Class III Permit Modification supporting materials.
 - Additional site characterization, and design of additional corrective actions.
- Engineer-of-Record for plans and specifications for the Wilson Corners groundwater remediation system (1986-1987).
- Technical reviewer for Kennedy Space Center Area-wide and Site-specific Groundwater Survey (1984 to 1986).
- Contract manager and lead engineer/geologist for Basic Ordering Agreement with NASA - Kennedy Space Center and Cape Canaveral Air Station, Florida for RCRA facility investigations and CMS. Project sites to date include Launch Complex 34, Launch Complex 5/6, Rail Car Siding Site, and the Hydrocarbon Burn Facility.
- Engineer-of-Record for hazardous waste tank certifications, Kennedy Space Center and Cape Canaveral Air Station (1987-1988).
- Geologist-of-Record for over 200 site assessments of soil and groundwater contamination in Southeast and Mid-South US.
- Engineer-of-Record for design of scores of soil/groundwater remediation systems (Florida).
- Inventor of patented soil gas extraction system in use at Miami International Airport.
- Design of closures for hazardous waste impoundment lagoons; capping with impervious membrane and soils cover. Subsequent construction management (OxyChem chrome processing plant, North Carolina; OXY USA carbon black plant, Texas).
- Design engineer on hazardous waste landfill (OxyChem Chlor-Alkali plant in Chile, S.A.). Impervious base liner and cap design.
- Audits of industrial facilities for compliance with state and Federal hazardous materials/waste regulations (Texas, Oklahoma, Kansas, New Mexico, Florida).
- Engineer and/or Geologist-of-Record and Program Manager for over 200 soil and groundwater contamination assessment projects and Risk Based Corrective Action (RBCA) studies in Florida. Projects were performed per Chapter 62-770 or under state-approved site-specific assessment and quality assurance plans.
- Technical reviewer (Project Advisory Committee) for RFI and CMS projects on RCRA chemical plant facilities (1988-1993).
- Project Manager for environmental, due-diligence audits of over 200 sites in Florida.
- Project Manager for design and environmental study projects for GSA and Naval Facilities Engineering Commands (NAVFEC) in excess of \$1 million in engineering fees. Projects include:
 - RCRA audits and waste characterization at aircraft paint stripping and electroplating shops, Naval Air Rework Centers (Jacksonville and Pensacola Naval Air Stations- 1986).
 - Design modifications to separate hazardous from non-hazardous wastes and to eliminate hazardous waste discharge through closed-loop systems (1987).
 - Survey of structural and mechanical conditions (including asbestos insulation) of steam distribution tunnels beneath Washington, D.C. (1980-1981).
 - Environmental audits of Naval Reserve Centers throughout the US (1985-1986).

Petroleum Production Engineering

- Company field supervising engineer for coring and logging of production and exploratory wells in central Mississippi (depth range 18,000 to 22,000 feet), northeastern Texas (depth range 6,000 to 12,000 feet), and southern Louisiana (depth range 4,000 to 10,000 feet).
- Production surveillance and leasehold review on existing fields.
- Design, specification, and field oversight of remedial workovers on existing wells to increase production (acidizing, hydrofracing, squeeze/reperferating, etc.).
- Sizing and specification of rod-pump and gas-lift oil extraction equipment.
- Field engineering support for killing a blowout on a 22,000-foot sour gas well in central MS.

Geological and Hydrogeological Engineering

- Dam site surveys in the Southern Appalachians.
- Proof core drilling and pressure testing proposed dam centerline and spillway alignments.
- Bedrock joint survey for degasing of coal deposits in West Virginia.
- Project Manager for tracing of groundwater flow into 6-mile by ½-mile by 1200-foot deep zinc/lead mine, Austinville, VA.
- Project manager for developing municipal surface and groundwater supply alternatives for City of Salem, VA.
- Project Manager for siting sanitary landfill in mountainous and karst terrain, Roanoke, VA.
- Dye tracing studies of groundwater flow in karst limestones (Virginia, Florida, Alabama).
- Seismic refraction surveys to map bedrock surfaces and fracture zones within bedrock.
- Preparation of well drilling specifications; field supervision of well construction.

Geotechnical Engineering

- Design, layout, and field supervision of hundreds of foundation investigations in the southeast and mid-Atlantic states.
- Preparation of rigid and flexible pavement subgrade specifications (Virginia, Carolinas, Florida).
- Preparation of earthwork specifications (excavation, fill placement, compaction, testing).
- Foundation design for bridge piers and suspension bridge deadman anchors (Virginia, Louisiana, Alabama).
- Engineer-of-Record for scores of mid-rise and high-rise foundation designs in southern Florida.
- Slope stability and settlement analyses of dikes, levees, and hydraulically placed fill (Louisiana, Virginia, North Carolina, Florida, and Ecuador, S.A.).
- Engineer-of-Record for soil testing laboratory in southern Florida.

Civil Engineering

- Concrete testing; jobsite quality control (Southeastern US and Caribbean).
- Dredged material disposal studies (Virginia, Maryland, Delaware).
- Survey and design for renovation of deteriorating structural concrete in steam distribution tunnels beneath Washington, D.C.
- High pressure piping design and layout for subsurface radioactive waste disposal system at Oak Ridge National Laboratories, TN.