

GERALD H. WILLIAMS, JR., PHD PE

SUMMARY OF QUALIFICATIONS

Dr. Williams has compiled nearly thirty years of experience in the building and construction industry in Oregon. His experience includes engineering design and construction engineering and management along with work in government and academic fields. He owns and operates *Construction Research, Inc.*, a consulting firm focused on research level analysis involving estimating and bidding, scheduling, production and delay impact analysis, task sequencing, and construction management. In addition he teaches Construction Law, Construction Management, and Construction Claims in the Civil Engineering Department at Portland State University. Dr. Williams Chairs the State of Oregon's Seismic Policy Advisory Commission, and is a member of Oregon's Homeland Security Council.

PROFESSIONAL REGISTRATIONS

Oregon: Professional Engineer, #13164PE, January 1986
Washington: Professional Engineer, #41222, October 2004
Idaho: Professional Engineer, #12971, October 2007
California: Professional Engineer, #040008C, August 1985 (currently inactive)

EDUCATION

1995 – 2003 Portland State University Portland, Oregon
Ph.D. Engineering Management: Systems Science
1983 - 1986 Washington State University Vancouver & Pullman, Washington
Master of Engineering Management
1976 - 1981 Oregon State University Corvallis, Oregon
Bachelor of Science, Civil Engineering
1972 - 1976 Woodrow Wilson High School Portland, Oregon

HONORS

Omega Rho International Honor Society for Operations Research and Management Science, Portland State University Chapter.

- President: 1997-98 Vice President: 1996-97 Secretary: 1995-96
- Outstanding Graduate Assistant Awards: 1995, 1996, 1997 and 1999
- Recipient of the Alma R. Pier Scholarship, 1976.

PROFESSIONAL EXPERIENCE

1996 - Present Construction Research, Inc. Portland, Ore.
Owner

- A construction consulting firm serving the building industry of the West.
- Consultant to various government agencies, including: Tri-Met, OHSU, MERC, Oregon DOJ, ODOT, ODFW, ODOC, OPR, and the Confederated Tribes of the Warm Springs Reservation.
- Consultant to numerous private organizations, including: owners, construction contractors, Surety's, and insurance companies, in construction defects, damages, and dispute cases.

2004 - 2008 R Brown Consulting Group, LLC. Portland, Ore.
Partner

- A construction consulting partnership.

1995 - Present Portland State University Portland, Oregon
Graduate Assistant, Engineering Management Program and Lecturer in Civil Engineering

- Instructor for Construction Project Management (Capstone Course - CE 484) 2002-07
- Instructor for Construction Law and Contracts (CE 510), 1996 - 2003
- Instructor for Construction Project Management (CE 510), Spring Term 1996 & 98
- Instructor for Construction Project Claims (CE 510), Spring Term 1999

1989 – 1995 Donald M. Drake Company (now JE Dunn, Inc.) Portland, Oregon

Estimator and Construction Engineer

- Involved in estimating over \$1.25 billion in building projects, and construction of the VA Portland Bridge, Rogue Valley Medical Center and Riedel Composter, the Oregon Arena Project (now, the Rose Garden), Biomedical Information Communication Center, Columbia River Correctional Institution, Commerce Industrial Park, Portland Airport Commercial Roadway, the Broadway Parking Garages and OAC Office Building at the Rose Garden Arena.

1986 - 1989 Portland Development Commission Portland, Oregon

Program Development Specialist, Development Department

- Responsible for planning and implementing the public works improvements for Phase Three of the South Waterfront Urban Renewal Project. Including the relocation of the PP&L Lincoln Substation, demolition of the Lincoln Steam Plant, selecting and managing engineering consultants, and coordinating with state, local and federal regulatory agencies.

1984 – 1986 Kramer Chin & Mayo, Inc. Portland, Oregon

Project Design Engineer

- Responsible for the design of water and sewerage systems, street and bridge design, water, storm water and sewerage system master planning studies.
- Projects included: Crystal Lake Drive design, Esalen Institute sewerage system design, Ashland Storm Drainage Master Plan, Newberg Wastewater Treatment Plant construction, Unified Sewage Agency Master Plan, field work.

1981 – 1984 R A Wright Engineering, Inc. Portland, Oregon

Design Engineer

- Involved in the design of water and sewerage systems, streets and roads, along with water system master planning, surveying and construction inspection.
- Projects included: Tualatin Water System Master Plan, Tualatin Water Transmission Main sections 1, 2 & 3, design and construction inspection, Commerce Industrial Park LID design & inspection, Indian Shores LID design and inspection.

1976 – 1980 Summers: ODOT, Peterson Associated Engineers, Inc. Portland, Oregon

Summer Intern

- Drafting of mechanical and electrical building plans, construction surveying for the Denny Road and Allen Avenue overpass structures, and conducted research on green concrete strength tests known as “Kelly-Vail” tests.

PUBLICATIONS AND CONFERENCE PRESENTATIONS

G.H. Williams, Jr. and T.R. Anderson; *Impacts to Labor Productivity in Steel framing and the Installation and Finishing of Gypsum Wallboard*, Northwest Wall & Ceiling Bureau, 2009, Seattle, WA.

G.H. Williams, Jr., T.R. Anderson, “*Impacts to Labor Productivity in the Metal Stud, Drywall, Tape and Finishing Trades*” Northwest Wall & Ceiling Bureau ©2009.

G.H. Williams, Jr., R.A. Lenneberg “*Importance of a Comprehensive Bid Proposal*” Northwest Wall & Ceiling Bureau Spring 2009 Conference Banff, Canada.

G.H. Williams, Jr., “*An Evaluation of Construction Contracting Methods for the Public Building Sector in Oregon, 1986-2002, using Data Envelopment Analysis*” Doctoral Dissertation, Portland State University, Engineering Management Program, Portland, OR ©2003

G.H. Williams, Jr., “*Construction Defect Litigation – An Application of the Allocation of Fault using AHP*,” Lorman Seminar, Portland, OR, October 2003, ©2003

G.H. Williams, Jr., T.R. Anderson, PhD., “Selection of Road Maintenance and Reconstruction Projects using Data Envelopment Analysis,” *at INFORMS Fall 2000, San Antonio, TX.*

G.H. Williams, Jr., T.R. Anderson, “Incentives, Information and Winners Curse,” *in the Proceedings of*

PICMET'97, D.F. Kocaoglu, T.R. Anderson, Eds., 1997, pp. 386-390.

G.H. Williams, Jr., "Auctions and Competitive Bidding, with an Emphasis on the Construction Industry," *at INFORMS Spring 1996, Washington, D.C.*

G.H. Williams, Jr., "Managing Very Large Projects," *at INFORMS Spring 1995, Los Angeles, California.*

G.H. Williams, Jr., T.R. Anderson, "The '96 Vote: a statistical analysis of the 1996 special and general elections in Oregon," *Working Paper presented at Doctoral Colloquium, PSU 1998.*

G.H. Williams, Jr., "Project Delivery Systems," *for NBI Advanced Construction Law Seminar, November 1999 and December 2000, Portland, Oregon..*

T.R. Anderson, G.H. Williams, Jr., "Data Envelopment Analysis with Missing Data," *at INFORMS Fall 1999, Philadelphia, Pennsylvania.*

G.H. Williams, Jr., T.R. Anderson, "Imprecise DEA and Construction Contractor performance in Oregon," *PICMET, Portland, OR, July 2003*

PROFESSIONAL ORGANIZATIONS

American Society of Civil Engineers: Construction Institute
Association for the Advancement of Cost Engineering International
Institute for Operations Research and Management Science
Associate Member, American Bar Association, Construction Law Branch

SELECTED MAJOR PROJECTS

Oregon Arena Project (*now: the Rose Garden*): Project Estimator
Trendwest, Depot Bay, OR, \$30 Million Construction Defects Case
McCoy Village Apartments, Portland, OR \$12 Million Construction Defects Case
Tanglewood Condominiums, Lake Oswego, OR, \$10 Million Construction Defects Case
San Francisco GSA Office Building, San Francisco, CA, \$6 Construction Payment Dispute
Kaiser Sunset Hospital, Los Angeles, CA, \$10 Million Construction Payment Dispute
USC+LAC Replacement Hospital, Los Angeles, CA, \$12 Million Construction Payment Dispute
Chuck Lenzie Power Plant, Las Vegas, NV, \$4 Million Construction Payment Dispute
Quatama Crossing, Hillsboro, OR: \$35 Million Construction Defect Claim
Salem Armory, Salem, OR, McCarthy Bros Construction: Claim Analysis
Salmon Run Tower, Vancouver, WA, Pacific Coast Construction, Construction Manger
Gresham Operations Center, ICW, Inc., Roger Brown Corp., Construction Manager
South Falls Lodge, Oregon Parks & Recreation Dept., Oregon Dept of Justice: Claims Analysis
Oak Springs Hatchery, Oregon Dept of Fish & Wildlife, Oregon Dept of Justice: Claim Analysis
Gresham High School Remodel, GBSD, Magno-Pacific, Inc., Claims Analysis
North Fields Expansion, Tualatin Hills Park & Recreation Dist, Paul Bros, Inc., Claims Analysis
Eastbank Esplanade, City of Portland, Advanced American Diving: Claims Analysis
Seal Rock Water District Transmission Line: Consulting Engineer, Claims Analysis
Limited Army Aviation Support Facility, Pendleton, Ore. Military Department: Claims Analysis
Cherry Avenue Project, Kaiser, Capital Concrete Construction: Claims Analysis
Tri-Met Westside LRT, Washington Park Station (501) Project: Consulting Engineer
OHSU Hospitals & Clinics Renovation Projects: Consulting Engineer
Rogue Valley Medical Center: Project Engineer
Portland City Hall Seismic Upgrade & Renovation: Consulting Engineer
US Bancorp Seismic Upgrade: Project Engineer
VA Portland Bridge: Safety and Project Engineer
Creston, Grant, Sellwood, Wilson & Peninsula Pools Projects: Consulting Engineer
C-Wing Elevator and Seismic Upgrade: Superintendent and Project Engineer
Biomedical Information Communication Center, OHSU: Project Estimator
Riedel Compost Facility: Project Engineer
Columbia River Correctional Institution: Project Estimator
RiverPlace Phase II & III: Program Development Specialist
Tualatin Water System Master Plan: Project Engineer
Crystal Springs Street, drainage way and bridges, Corvallis, Oregon: Design Engineer
Westside water transmission line, Tualatin: Design and Construction Engineer
Newberg Sewage Treatment Plant: Construction Engineer
Indian Shores, Water, Storm Water, Sewer and Street LID, Design & Construction Engineer