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EDUCATION

1986 Fellowship, Kennedy School of Government, Harvard University

1971 Ph.D. in Civil Engineering, University of Illinois

1970 M.S. in Civil Engineering, University of Illinois

1964 B.S. in Electrical Engineering, University of Idaho

ACADEMIC EXPERIENCE

2012-Present **Dean, College of Built Environments, University of Washington.** Serves as chief administrative officer for a college composed of four academic departments.

2008-2014 **Chairman and Professor, Department of Construction Management, University of Washington.** Teaches both graduate and undergraduate courses and serves as chief administrative officer for department composed of 10 full-time faculty, 10 part-time faculty and 2-person administrative staff.

2002-2008 **Chairman and Associate Professor, Department of Construction Management, University of Washington.** Teaches both graduate and undergraduate courses and serves as chief administrative officer for department composed of 8 full-time faculty, 8 part-time faculty and 2-person administrative staff.

1994-2002 **Assistant and Associate Professor, Department of Construction Management, University of Washington.** Teaches graduate and undergraduate courses specializing in contract procurement, contract administration, construction equipment management, construction project management, and construction firm management. Manages graduate program.

1986-1987 **Director, Department of Military Engineering, U.S. Army Engineer School.** Supervised 175 instructors and training developers in the development of programs of instruction and supporting training literature and the teaching of all technical engineer subjects to entry-level and mid-career engineer officers.

1972-1975 **Assistant Professor, Department of Engineering, U.S. Military Academy.** Taught mechanical, civil, and management engineering to senior-level undergraduate students.

PROFESSIONAL EXPERIENCE

1964-1994 **Military Officer, U. S. Army Corps of Engineers.** Served in a variety of positions of increasing responsibility in military units in Saudi Arabia, Germany, Korea, Vietnam, and the United States. Analyzed facilities management programs for the U. S. Army while working in the Pentagon and identified concepts for improving performance.

PUBLICATIONS

Books

Professional Ethics for the Construction Industry, written with Rebecca Mirsky, published by Routledge, 2015, 140 pages.

Construction Project Safety, written with Ken-Yu Lin, published by John Wiley & Sons, 2014, 269 pages.

Construction Business Management, published by Prentice-Hall, 2009, 249 pages.

Construction Cost Estimating: Process and Practices, written with Len Holm, Dennis Griffin and Tom Cole, published by Prentice-Hall, 2005, 354 pages.

Management of Construction Projects: A Constructor's Perspective, written with Len Holm, published by Prentice-Hall, 2002, 433 pages.

Construction Equipment Management, published by Prentice-Hall, 1999, 357 pages.

Contracts With the Trades: Scope of Work Models for Home Builders, written with John Fredley, published by Home Builder Press, 1997, 124 pages.

Journal Articles

“Risk Management Strategies for Privatized Infrastructure Projects: Study of the Build-Operate-Transfer Approach in East Asia and the Pacific,” *Journal of Management in Engineering*, Vol. 30, No. 3, May/June 2014, pages 05014001-1 to 0514001-9. Written with Namhun Lee.

“Business Development Tools for Recruiting Talent,” *Business Development Journal*, Vol. 1. No. 1, November-December 2003, page 13.

“Alternate Financing Strategies for Build-Operate-Transfer Projects,” *Journal of Construction Engineering and Management*, Vol. 129, No. 2, March/April 2003, pages 205–213. Written with Isr Wipadapisut.

“Selecting Optimum Mechanical Systems for Office Buildings,” *Cost Engineering*, Vol. 42, No. 5, May 2000, pages 40–43. Written with Raymond Jacobson.

“Seattle Builds a New Baseball Stadium,” *Cost Engineering*, Vol. 40, No. 5, May 1998, pages 15–17.

Conference Papers

“Evaluating Alternative Methods for Capturing As-Built Data for Existing Facilities,” *Proceedings of the American Society of Civil Engineers International Workshop on Computing in Civil Engineering*, Austin, Texas, June 24-27, 2009, pages 237-246. Written with Eddy Rojas, Carrie Dossick, Beth Brucker, Helen Juan, and Christopher Rutz.

“LEED Certification: A Constructor's Perspective,” *Proceedings of the American Society of Civil Engineers Construction Research Congress: Building a Sustainable Future*, Seattle, Washington, April 5-7, 2009, pages 598-607. Written with Joshua Cloud.

“Use of Design-Build on Highway Projects,” *Proceedings of the American Society of Civil Engineers Construction Research Congress*, Freeport, Grand Bahamas, May 6-8, 2007.

“Risk Management on Build-Operate-Transfer Projects,” *Proceedings of American Society of Civil Engineers Construction Research Congress: Broadening Perspectives*, San Diego, California, April 5-7, 2005, pages 464-468.

“Use of Design-Build on Mass Transit Rail Projects,” *Proceedings of American Society of Civil Engineers Construction Research Congress: Broadening Perspectives*, San Diego, California, April 5-7, 2005, pages 454-458.

“Developing Leaders for Construction Firms,” *Proceedings of the 2004 American Society of Civil Engineers Specialty Conference on Leadership and Management in Construction*, Hilton Head, South Carolina, March 24-26, 2004, pages 26-32.

“Causes of Subcontractor Business Failure and Strategies to Prevent Failure,” *Proceedings of American Society of Civil Engineers Construction Research Congress*, Honolulu, Hawaii, March 19–21, 2003.

“Success Factors for Design-Build Contracting,” *Proceedings of American Society of Civil Engineers Construction Research Congress*, Honolulu, Hawaii, March 19–21, 2003.

“Financing Strategies for Build-Operate-Transfer Projects,” *The International Council for Research and Innovation in Building and Construction 10th International Symposium on Construction Innovation and Global Competitiveness*, September 9–13, 2002, pages 808–818.

“Managing Foreign Exchange Risk on International Construction Projects”, *The International Council for Research and Innovation in Building and Construction 10th International Symposium on Construction Innovation and Global Competitiveness*, September 9–13, 2002, pages 367–373.

“Use of Award Fees on Lump-Sum Projects,” *The International Council for Research and Innovation in Building and Construction 10th International Symposium on Construction Innovation and Global Competitiveness*, September 9–13, 2002, pages 819–825.

“Use of Design-Build-Operate Contracts for Infrastructure Projects,” *The International Council for Research and Innovation in Building and Construction 10th International Symposium on Construction Innovation and Global Competitiveness*, September 9–13, 2002, pages 799–807.

“Private Sector Project Delivery”, *Transactions of 46th Annual Meeting of AACE International*, Portland, Oregon, June 23–26, 2002, pages PM.05.01–PM.05.06.

“Delivering Quality School Projects,” *Proceedings of American Society of Civil Engineers Construction Congress VI*, Orlando, Florida, February 20–22, 2000, pages 603–610.

“Marketing Construction Services,” *Proceedings of American Society of Civil Engineers Construction Congress VI*, Orlando, Florida, February 20–22, 2000, pages 471–476.

“Mechanical Craft Training in Western Washington,” *Proceedings of American Society of Civil Engineers Construction Congress VI*, Orlando, Florida, February 20–22, 2000, pages 244–252.

“Strategies for Successful Partnering Relationships,” *Proceedings of American Society of Civil Engineers Construction Congress VI*, Orlando, Florida, February 20–22, 2000, pages 463–470.

“Teaching Business Survival Skills to Construction Managers,” *Proceedings of the 35th Annual Conference of the Associated Schools of Construction*, April 1999, pages 241–249.

Technical Reports

A Study of the Economic Impact of the Construction Industry on the State of Washington (2014 Update), Technical Publication No. 29, Department of Construction Management, University of Washington, September 2015, 32 pages.

Evaluating Alternative Methodologies for Capturing As-Built Building Information Models (BIM) for Existing Facilities, U. S. Army Engineer Research and Development Center Construction Engineering and Research Laboratory, September 2008, 104 pages. Written with Eddy Rojas, Carrie Dossick, Helen Juan, and Christopher Rutz.

A Human Resource Management Primer for Company Leaders, published by The Foundation for Electrical Construction, Bethesda, Maryland, 2007, 108 pages.

A Human Resources Management Primer for Supervisors, published by The Foundation for Electrical Construction, Bethesda, Maryland, 2007, 23 pages.