JOHN R. FOLKESON, JR.

EDUCATION

Ph.D., University of Houston, Houston, TX, 1982
M.B.A., University of Missouri, Columbia, MO, 1976
B.A., Pennsylvania State University, State College, PA, 1967

TEACHING EXPERIENCE

2007- Present –-Practitioner Faculty of Decision Science, Graziadio School of Business, Pepperdine University, Los Angeles, CA. Teaching Decision Science curriculum to both undergraduate and graduate students. Serving on the Bachelor of Science in Management Program Committee.

1979–1983—Assistant Professor, Logistics Management Department, School of Systems and Logistics, Air Force Institute of Technology, Dayton, OH. Taught courses in production management, decision support systems, and quantitative methods in a Master of Science degree curriculum. Supervised numerous student theses. Program Director of degree specialization in Maintenance and Production Management.

1977–1979—Doctoral Student (Production/Logistics Management), College of Business, University of Houston, Houston, TX. Taught undergraduate production management and research assistant to projects funded by Air Force and NASA.

PROFESSIONAL EXPERIENCE

1987-2006—Senior OR Analyst, RAND Corporation, Santa Monica, CA. Conducting research on a range of national security and logistics issues. Research areas included (a) overall logistics process improvement within selected Department of Defense (DoD) activities, (b) improvement of Defense Distribution System processes with a partnership of U.S. Transportation Command and Defense Logistics Agency, and (c) improvement of Army depot maintenance processes. Past research reports have included (a) methodology for long-range logistics planning for the Army, (b) logistics decision support tools for the Army, (c) development of weapon system sustainment management concepts, (d) analysis of options for Air Force composite wings, and (e) airbase survivability in conventional and chemical attack environments.

1983–1987—Logistics Analyst, Air Force Center for Studies and Analyses, Department of the Air Force, Washington,DC. Conducted research on Air Force policy options related to basing, logistics support, inventories, and airbase survivability.

1967–1987—Lieutenant Colonel, United States Air Force. Served on active duty as both a logistician and a strategic missile launch officer in numerous worldwide assignments.

RESEARCH AREAS

Process Improvement. Dr. Folkeson continues to study process improvement within profit and not-for-profit organizations. He is currently working on procedural and organizational changes to several organizations and developing an elective M.B.A. course in Process Simulation where students can model and analyze current and proposed improvements to business processes.

Logistics Support. Dr. Folkeson has conducted studies of the support of military operations and warfighting capability. He has completed projects that suggest procedural and organizational changes to logistics processes and policies within DoD. The focus of this work was on identifying process change opportunities that shorten the logistic support cycle to make the logistic system more responsive and to provide the required sustainment at lower costs.

Weapon System Management. Dr. Folkeson has conducted studies involved with defining the functional requirements for a weapon system focused DoD Materiel Management concept. This concept was the design objective for a DoD Corporate Information Management system intended to support the management information needs of all the Services. This work extends earlier weapon system management approaches by defining a top-down logical definition, a set of implementation strategies, and an initial definition of decision support capabilities that are needed for further implementation.

Maintenance Manpower. Dr. Folkeson has conducted studies on examining the manpower implications for the Air Force of changing from single aircraft type to multi-aircraft type composite tactical fighter units. This research supported the organizational transformation to the expeditionary force structure now implemented. He has also modeled manpower requirements to support airbase sortie generation and post attack recovery operations. The simulation models developed capture the interactions of the constrained resource environment including manpower, equipment and specialized tools, inventories of supplies and munitions, and dynamic detailed scenarios.

Airbase Operability. Dr. Folkeson has conducted studies on survivability and continued operability of airbases that are attacked with both conventional and chemical weapons. He has completed a multi-year project for the Air Force that was designed to suggest policy options for improving the operability of NATO airbases. The methodology employed large-scale simulation of attacks, recovery processes, and sortie generation activities in single and multi-base environments.

Methodology of Large-Scale System Design. He has conducted studies on a structured approach to planning and designing large-scale systems so that the multiple decision criteria intended to be satisfied are achieved to the extent possible given constrained resources.

PROFESSIONAL ORGANIZATIONS/HONORS

Council of Supply Chain Management Professionals
American Production and Inventory Control Society
Society of Logistics Engineers
Phi Kappa Phi
Beta Gamma Sigma

PUBLICATIONS

RAND Reports

Seabasing and Non-seabasing Options for Projecting Army Ground Forces, RAND, DB-5055/1-A, 2006 (co-authored).

Improving the Army's Management of Reparable Spare Parts, RAND, MG-205-A, 2005 (co-authored).

Reparable Item Repair Processes to Support the 21st Century Army, RAND, DRR-2807-A, 2003 (co-authored).

Comparing the Order Fulfillment Metrics of Strategic Distribution and Velocity Management: CWT(-), RWT, and CWT, RAND, AB-678-USTC/DLA/ARMY, 2003 (co-authored).

Improving DoD's Overseas Surface Supply Chain through the Strategic Distribution Management Initiative, RAND, DRR-2649-USTC/DLA, 2001 (co-authored).

Velocity Management: The Business Paradigm that Has Transformed U.S. Army Logistics, RAND, MR-1108-A, 2001 (co-authored).

Define-Measure-Improve: The Change Methodology that has Propelled the Army's Successful Velocity Change Management Initiative, RAND, RB-3020, 2000 (co-authored).

Velocity Management at Fort Campbell: Lessons From the "Focused Implementation", RAND, DRR-1927-A, 2000 (co-authored).

The Army Strategic Logistics Plan: Proposed Performance Metrics and Substantive Outline, RAND, PM-957-A, 1999 (co-authored).

The Army Strategic Logistics Plan: Draft Chapters One and Two, RAND, PM-980-A, 1999 (co-authored).

Velocity Management Implementation Guide, RAND, DRR-1581-A, 1997 (co-authored).

Velocity Management: An Approach for Improving the Responsiveness and Efficiency of Army Logistics Processes, RAND, DB-126-1-A, 1995 (co-authored).

Improving the Army's Repair Process: Presentation to the Velocity Group, RAND, DRR-1164-1-A, 1995 (co-authored).

Weapon System Sustainment Management: A Concept for Revolutionizing the Army Logistics System, RAND, DB-104-A, 1994 (co-authored).

Project AIR FORCE Analysis of the Air War in the Gulf: Munitions Support for USAF Aircraft in Operation Desert Storm, RAND, N-3610/6-AF, 1993 (co-authored).

Weapon System Sustainment Management Concept and Implementation: Annotated Briefing, RAND, WD-6052-A, 1992 (co-authored).

Composite Wings, Needs, Costs, and Options, RAND, R-4117-AF, 1992 (co-authored).

Increasing the Wartime Operability of Airbases--Volume I: Project Report (U), RAND, R-3881-AF, Secret NOFORN WNINTEL, 1992 (co-authored).

Increasing the Wartime Operability of Airbases--Volume II: Appendices, RAND, N-3129-AF, 1992 (co-authored).

Wartime Operability of NATO Airbases: Scripted Briefing (U), RAND, N-3128-AF, Secret, 1992 (co-authored).

Composite Wings, Support Needs, and Options, RAND, WD-5274-AF, 1991 (co-authored).

A Conceptual Framework for Weapon System Sustainment Management: Vol. II, A Preliminary Action Plat, RAND, WD-5555/2, 1991 (co-authored).

A Conceptual Framework for Weapon System Management, RAND, WD-5286, 1991 (co-authored).

RAND Draft Documents

"A Supply Chain Management Perspective of Army Depot Maintenance: Impact of Lean Six Sigma and Repair Part Initiatives", draft report, October 2006.

"Risk Assessment of Alternative Convoy Routes: Modeling Approach with Example", draft white paper with briefing, October 2006.

Published Articles

"Analysis of Interaction of Multiple Criteria with Application to Large-Scale System Planning and Design", Dissertation, College of Business Administration, University of Houston, May 1982.

"Preliminary Activities in the Development of MX Maintenance Control Through Use of a Design Morphology", Technical Report, College of Business Administration, University of Houston, September 1979 (co-authored).

"Application of a Structured Decision Process for the Proper Inclusion of Human Resources in the Design of a Power Unit Support Stand", Technical Report, College of Business Administration, University of Houston, September 1978 (co-authored).

"Morphology of Design of Aerospace Systems with Inclusion of Human Factors (Final Report)", Technical Report, College of Business Administration, University of Houston, August 1977 (co-authored).

"An Annotated Bibliography on Morphology of Design with Inclusion of Human Factors", Technical Report, College of Business Administration, University of Houston, March 1977 (co-authored).