



**Robert B. Stewart, CVS-Life, FSAVE, PMP
President**

Qualifications

Rob Stewart is a Certified Value Specialist and Project Management Professional who has been practicing Value Methodology for over 20 years. During this time, he has led over 300 value studies for clients in both the private and public sectors on a wide range of products, services, and facilities from forklifts to multi-billion dollar transportation projects. He has taught courses and lectured on Value Methodology at Portland State University, the University of California, Berkeley, and Chung-Ang University, Seoul Korea. Mr. Stewart was responsible for developing Value Metrics, a value measurement system that compliments traditional Value Methodology. This system of techniques is now used by a number of public agencies as a means to evaluate the relationship of project cost and performance to value improvement

In 2001, he was awarded the Federal Highway Administration's award for "Most Outstanding Value Engineering Study" for his efforts on the I-215 Improvement Project in San Bernardino, California. Most recently, he was awarded an "Honorable Mention" by AASHTO for a VE / Constructibility Review Study he led for the Seismic Retrofit of the San Francisco-Oakland Bay Bridge in 2002. In 2009, he was awarded an "Honorable Mention" by AASHTO for the over \$75 million category for his work on the New State Route 138 in Palmdale, CA.

In 2005, Mr. Stewart published the text, "Fundamentals of Value Methodology." In 2006, this text was translated into Korean and is in the process of being translated into Chinese. This text supports a Module 1 VM Training Workshop that is accredited by both SAVE International and the Project Management Institute. Mr. Stewart has also pioneered an accompanying e-learning version of this course.

In 2008, Mr. Stewart was nominated to serve on the Board of Directors for the Miles Value Foundation, a prestigious non-profit organization dedicated to expanding the discipline of Value Methodology in higher education. In 2009, he was inducted into the SAVE International College of Fellows, which is the highest form of professional recognition in the field of Value Methodology.

In 2010, his second book, "Value Optimization for Project and Performance Management," was published by John Wiley & Sons.

Education

- ♦ B.A. – Geography, 1990 – University of Oregon, Eugene, OR
- ♦ Graduate Studies – Geography, 1989-90 – University of Aberdeen, Aberdeen, Scotland

Registration

- ♦ Certified Value Specialist — No. 920601, SAVE International
- ♦ Project Management Professional, No. 320071, Project Management Institute

Employment Record

- ◆ Value Management Strategies, Inc., (2009-Present) President
- ◆ Value Management Strategies, Inc., (1999-2009) Vice President
- ◆ Consulting Value Specialists, Inc., (1990-1998), President

Professional Affiliations

- ◆ SAVE International
- ◆ Project Management Institute
- ◆ Lawrence Delos Miles Value Foundation, Director

Publications

- ◆ "Value Engineering in Design & Construction," 1992 (Editor, VE Textbook)
- ◆ "Leading the Value Team: An Assessment of the Team Leader's Role in Design & Construction," 1992 (SAVE International Annual Conference Proceedings)
- ◆ "Beyond the Cost Savings Paradigm: Evaluation and Measurement of Project Performance", 2002 (Article, Value World)
- ◆ "The Integration of the Performance Measures Process into Value Methodology Studies," 2004 (SAVE International Conference Proceedings)
- ◆ "Fundamentals of Value Methodology," 2005 (Author, Value Methodology Textbook)
- ◆ "Striving for value in Silicon Valley through mass transit," 2006, (Article, Achieving Value)
- ◆ E-Learning Course Development – Developed four web-based training courses including:
 - ◇ "The Fundamentals of Value Methodology"
 - ◇ "Value Methodology: A Project Manager's Overview"
 - ◇ "An Introduction to Function Analysis"
 - ◇ "An Introduction to Value Metrics"
- ◆ "The Application of Value Profiling on Public Projects: An Examination of the California Department of Transportation's Performance Measures Process," Robert B. Stewart & Chili Cilch, 2006, Paper, Institute of Value Management Conference
- ◆ "The Application of Cost Risk Assessment for VE of Construction Projects," Robert B. Stewart, 2007, Lecture, Korean Institute of Construction Engineering & Management
- ◆ "Quantitative Risk Analysis for Design & Construction," 2008 (Author, Risk Analysis Training Manual)
- ◆ "How VE and Decision Analysis are Improving Mobility across Borders," 2009 AASHTO VE Conference, paper
- ◆ "Value Optimization for Project and Performance Management," 2010, John Wiley & Sons, Hoboken (Author, Book on Value Methodology)
- ◆ "Function Driven Risk Management," Value World, Summer, 2010 (Co-Author with Greg Brink)

Representative Experience

Rob Stewart has performed as a Value Engineering Team Leader (VETL) and Training Workshop Instructor in many fields, including manufacturing, industry, and construction. He has conducted over 100 studies in the last twelve years for public agencies such as:

- ◆ Bay Area Rapid Transit District
- ◆ California Dept. of Transportation
- ◆ City and County of San Diego
- ◆ City and County of Honolulu
- ◆ City of New York
- ◆ Clark County, WA
- ◆ Oregon Dept. of Transportation
- ◆ Santa Clara Valley Transportation Authority
- ◆ San Francisco Municipal Railway
- ◆ State of Washington, Transportation Improvement Board
- ◆ State of Washington, Office of Financial Management
- ◆ Tri-Metropolitan Transit District, OR
- ◆ U.S. Army, Corps of Engineers, Alaska, Sacramento, St. Paul and Portland Districts
- ◆ U.S. Naval Facilities Engineering Command, Southwest and Pacific Divisions
- ◆ U.S. Department of Energy (Livermore, CA)
- ◆ U.S. Department of Fish & Wildlife
- ◆ U.S. Department of State
- ◆ U.S. General Services Administration
- ◆ U.S. Park Service
- ◆ Washington Dept. of Transportation
- ◆ Washington County, OR

Value Analysis/Value Engineering Project Studies

HIGHWAY AND TRANSIT PROJECTS

California Department of Transportation

- ♦ Schuyler Heim Bridge Replacement, Los Angeles County, CA
- ♦ SR 78 Nordahl Road Bridge Replacement, San Diego County, CA
- ♦ I-5 Rehabilitation, Pocket Road to San Joaquin County Line, Sacramento County, CA
- ♦ Magnolia Avenue/BNSF Grade Separation, Riverside County, CA
- ♦ SR 65 – Lincoln Bypass, Lincoln, CA
- ♦ SR 99 Widening/Hammer Lane Interchange, Stockton, CA
- ♦ I-215 Improvements, San Bernardino, CA
- ♦ SR 80/Ashby Interchange, Berkeley, CA
- ♦ SR 101 Widening/Wilfred Avenue Interchange, Santa Rosa, CA
- ♦ I-5/SR 74 Interchange, San Juan Capistrano, CA
- ♦ SR 99 Widening & Pavement Rehabilitation, Fresno, CA
- ♦ Maxwell Bridge Replacement, Napa, CA
- ♦ Marin SR 101 Lane HOV Gap Closure, Marin County, CA
- ♦ Route 580/Northside Interchange, Livermore, CA
- ♦ I-5/I-805 Widening Improvements, San Diego, CA
- ♦ SR 111/Brawley Bypass—Project Transition, San Diego, CA
- ♦ SR 12 Road Rehabilitation & Bridge Replacement, Solano County, CA
- ♦ SR 101/Woodside Road Interchange, San Mateo County, CA
- ♦ Marysville Bypass to Oroville Freeway, Yuba/Butte Counties, CA
- ♦ Constructibility & Staging, San Francisco/Oakland East Bay Bridge, CA
- ♦ West Approach, San Francisco/Oakland Bay Bridge, CA
- ♦ West End Demolition, San Francisco/Oakland Bay Bridge, CA
- ♦ Devil's Slide Tunnel, San Mateo County, CA
- ♦ Ten-Mile River Bridge, Fort Bragg, CA
- ♦ Route 132 Expressway, Modesto, CA
- ♦ I-15 Managed Lanes – Middle Segment, San Diego, CA
- ♦ SR 91 HOV Improvements, Riverside, CA
- ♦ Route 405 Auxiliary/HOV Lanes, Los Angeles, CA
- ♦ Terra Bella Expressway, Tulare County, CA
- ♦ Doyle Drive, San Francisco, CA
- ♦ Route 405 Gap Closure, Los Angeles, CA
- ♦ SR 74 Improvements, Lake Elsinore, CA
- ♦ SR 60 HOV Lanes, Moreno Valley, CA
- ♦ Ramon Road Interchange, Palm Springs, CA
- ♦ SR 299/Dana Drive, Redding, CA
- ♦ SR 680/NB HOV Improvements, Alameda/Santa Clara Counties, CA
- ♦ I-405 Auxiliary Lane Improvements, Los Angeles, CA
- ♦ I-405/US 101 Interchange Improvements, Los Angeles, CA
- ♦ Independent Review Team, San Francisco/Oakland Bay Bridge, CA
- ♦ Gore Area Surface Treatments Study, Caltrans HQ
- ♦ Benicia-Martinez Bridge Replacement, Martinez, CA
- ♦ Antlers Bridge Replacement, Lake Shasta, CA
- ♦ Route 18 Realignment, Victorville, CA
- ♦ Inland Empire Transportation Management Center, Fontana, CA
- ♦ I-10/Citrus Ave. Interchange, Fontana, CA
- ♦ SR 29/SR 12 Interchange, Napa, CA
- ♦ I-5 North Coast Widening, San Diego County, CA
- ♦ SR 79/Mid-County Parkway Interchange, San Jacinto, CA
- ♦ I-215/Mid-County Parkway Interchange, Perris, CA
- ♦ I-15/Mid-County Parkway Interchange, Corona, CA
- ♦ Mid-County Parkway Corridor, Riverside County, CA
- ♦ Extended Gore Area Standards Review, Statewide, CA

- ◆ LA I-5 Corridor Improvements, Los Angeles, CA
- ◆ LA 110 Auxiliary Lanes and Ramp improvements, Los Angeles, CA
- ◆ I-5 North Coast Widening Funding Strategies, San Diego, CA
- ◆ SR-60 / Moreno Beach Dr., Moreno Valley, CA
- ◆ SR-52 Cost – Risk Assessment, San Diego, CA
- ◆ SR-76 Middle, Cost – Risk Assessment, San Diego, CA
- ◆ SR-84 Safety Improvement Project, Sunol, CA
- ◆ Antlers Bridge – Risk Assessment, Antlers, CA
- ◆ SR-55 Auxiliary Lanes, Santa Ana, CA
- ◆ I-5 Truck and HOV Lane Improvements, SR-14 to Parker Rd., Santa Clarita, CA
- ◆ SR-76 East, Cost – Risk Assessment, San Diego, CA
- ◆ New SR-138, Palmdale, CA
- ◆ I-10 / 605 Interchange, Los Angeles, CA
- ◆ US 101 Improvements, I-280 to Yerba Buena Rd., San Jose, CA
- ◆ I-8 Operational Improvements, San Diego, CA
- ◆ SR-91 Corridor Improvement Project, Corona, CA
- ◆ SR-91 Widening, Anaheim, CA
- ◆ I-880 HOV Widening, San Jose, CA
- ◆ New State Route 11, San Diego, CA
- ◆ Doyle Drive Constructibility, San Francisco, CA
- ◆ Schuyler Heim Bridge Replacement, Long Beach, CA
- ◆ Nordahl Rd. Interchange, San Marcos, CA
- ◆ I-5 Hwy Rehab, Pocket Rd to San Joaquin County Line, Sacramento, CA

City of New York

- ◆ Paerdegat Bridge, Brooklyn, NY
- ◆ Mill Basin Bridge, Brooklyn, NY
- ◆ Belt Parkway over Ocean Parkway, Brooklyn, NY
- ◆ Manhattan Bridge Recabling and Suspender Replacement Project, Manhattan, NY
- ◆ Roosevelt Avenue Bridge Rehabilitation, Queens, NY
- ◆ 21st Avenue Bridge Replacement, Brooklyn, NY

***Washington State
Department of
Transportation***

- ◆ I-5 / Blaine Interchange, Blaine, WA
- ◆ Salmon Creek Interchange Project

***State of Washington,
Transportation
Improvement Board***

- ◆ Britton Parkway, Lacey, WA
- ◆ Allen Street Bridge Project, Kelso, WA
- ◆ 3rd Street Grade Separation Project, Auburn, WA
- ◆ NE 20th Avenue Improvements, Clark County, WA
- ◆ NW 99th Street Improvement Project, Clark County, WA
- ◆ Burton Road, Phases II & III, Vancouver, WA
- ◆ NE Fourth Plain Boulevard, Vancouver, WA
- ◆ 192nd Avenue, Phase I Improvements, Vancouver, WA
- ◆ 18th Street Improvements, Vancouver, WA
- ◆ Land Bridge, Vancouver, WA
- ◆ 138th Street Improvements, Vancouver, WA
- ◆ E Street Improvements, Washougal, WA
- ◆ 138th Avenue Improvements, Vancouver, WA
- ◆ Silicon Valley Rapid Transit Project, Tunnel Segment
- ◆ Silicon Valley Rapid Transit Project, Line Segment
- ◆ Silicon Valley Rapid Transit Project, Stations
- ◆ Silicon Valley Rapid Transit Project, Yard and Shops
- ◆ Silicon Valley Rapid Transit Project, Project Implementation Plan

***Santa Clara Valley
Transportation Authority
San Jose, CA***



- Bay Area Rapid Transit District**
 - ◆ DPX Extension Project
 - ◆ PAX Extension Project
 - ◆ CSX Extension Project
- Tri County Metropolitan Transit Authority, Portland, OR**
 - ◆ Westside MAX Corridor Project
 - ◆ Interstate Max LRT Project
- Various Clients & Projects**
 - ◆ Risk Assessment Study Report, US 41 Corridor, Green Bay, WI
 - ◆ Honolulu High-Capacity Transit Corridor – Stations
 - ◆ I-5 Rehabilitation, Albany, OR (ODOT)
 - ◆ I-205 Auxiliary Lanes, Tualatin, OR (ODOT)
 - ◆ Spring Mountain Road/I-15 Interchange, Las Vegas, NV (NVDOT)
 - ◆ Big Salmon River Road Project, Riggins, ID (WFLHD)
 - ◆ Bridge Replacement Project, Middle Fork John Day River, OR (WFLHD)
 - ◆ Boundary Bridge, Mt. Baker National Forest, WA (WFLHD)
 - ◆ SW Baseline Road Improvements, Phase 2, Washington County, OR
 - ◆ SW Baseline Road Improvements, Phase 3, Washington County, OR
 - ◆ Muni Metro Embarcadero Extension, San Francisco Municipal Railway, San Francisco, CA
 - ◆ Grand Canyon National Park Transportation System, U.S. National Park Service
 - ◆ Honolulu Rapid Transit System, Honolulu, HI

PORT AND MARINE FACILITIES

- Various Clients & Projects**
 - ◆ Blair Hylebos Peninsula Terminal Redevelopment Project, Port of Tacoma, WA
 - ◆ Offshore Terminal Facilities (Marine Works Package), Kuwait National Petroleum Company, Kuwait City

ENVIRONMENTAL FACILITIES, WATER AND WASTEWATER TREATMENT PLANTS

- U.S. Army Corps of Engineers**
 - ◆ Temporary and Permanent Floodwall, Lafourche Parish, LA
 - ◆ Amazon Creek Habitat Restoration Project, Eugene, OR
 - ◆ San Lorenzo Habitat Restoration Project, Santa Cruz, CA
 - ◆ Homme Dam Replacement Project, Park River, ND
 - ◆ Columbia River Deepening, Portland, OR
 - ◆ Yaquina North Jetty Replacement, Newport, OR
 - ◆ Corner Collector Project, Bonneville Dam, OR
 - ◆ Delta Ponds Restoration, Eugene, OR
- Various Clients & Projects**
 - ◆ Citywide Recycled Water Facilities, Corona, CA
 - ◆ Matadero Creek Flood Control System, Palo Alto, CA
 - ◆ Industrial Waste Water Treatment Facility, Barstow, CA
 - ◆ Chemical Sewer Renovation, Rahway, NJ
 - ◆ Bowery Bay Water Pollution Control Plant, Queens, NY

PUBLIC/GOVERNMENT FACILITIES

Washington County, OR

- ◆ Walnut Street Maintenance Facility, Hillsboro, OR
- ◆ Detention Facility, Hillsboro, OR
- ◆ Community Corrections Center, Hillsboro, OR
- ◆ Law Enforcement Center, Hillsboro, OR

State of Washington, Office of Financial Management

- ◆ Legal Offenders Unit, Lakewood, WA
- ◆ Emergency Operations Center, Camp Murray, WA
- ◆ DOL Licensing Facility, Vancouver, WA

U.S. Dept. of State, Overseas Building Operations

- ◆ Standardized Embassy Design, Washington D.C.
- ◆ New Embassy Compounds, Palau and Micronesia
- ◆ New Embassy Compound, Kingston, Jamaica
- ◆ New Embassy Compound, Riga, Latvia
- ◆ Staff Diplomatic Apartments, Hong Kong
- ◆ U.S. Consulate, Ciudad Juarez, Mexico
- ◆ Staff Diplomatic Housing, Sana'a, Yemen
- ◆ New Embassy Compound, Bishkek, Kyrgyzstan
- ◆ New Office Annex, Kabul, Afghanistan
- ◆ New Embassy Compound, Islamabad, Pakistan
- ◆ New Embassy Compound, Vientiane, Laos
- ◆ New Embassy Compound, Sarajevo, Bosnia-Herzegovina

Various Clients & Projects

- ◆ Physician Office Wing, Central Oregon District Hospital, Redmond, OR
- ◆ Federal Building Renovation, Richland, WA
- ◆ Phase 1, Visitor Facilities – Tualatin River National Wildlife Refuge, U.S. Fish & Wildlife Service
- ◆ Terascale Simulation Facility, Lawrence Livermore National Laboratory, U.S. Department of Energy
- ◆ Harlem Hospital Renovation, New York, NY, City of New York
- ◆ Saint John's Health Center, Santa Monica, CA

EDUCATIONAL FACILITIES

State of Washington, Office of Financial Management

- ◆ WSU Vancouver Campus, New Campus, Phase 1, Vancouver, WA
- ◆ Olympic Community College, Poulsbo Satellite Campus, WA
- ◆ Everett Comm. College, Instructional Technology Building, Everett, WA
- ◆ WSU Vancouver Campus, Infrastructure Improvements, WA
- ◆ Spokane Community College, Health Sciences Building, WA
- ◆ WSU Tri-Cities Campus, Science and Education Center, Richland, WA
- ◆ Pierce County Skills Center, Spanaway, WA

Salem-Kaiser School District

- ◆ Two New Elementary Schools, Site E-1, Salem, OR
- ◆ Two New Middle Schools, Site N1, Salem, OR
- ◆ New Middle School, Site SX, Salem, OR
- ◆ New Central Kitchen Facility, Salem, OR

Various Clients & Projects

- ◆ Lacamas Heights Elementary School Remodel, Camas, OR
- ◆ Lewis & Clark College, Law School Addition, Portland, OR
- ◆ Yamhill County Educational Service District Facility, McMinnville, OR
- ◆ New Campus, Phase 1, Ulsan, Republic of Korea, Ulsan University
- ◆ Prototype High School, Las Vegas, NV

MILITARY FACILITIES

- U.S. Army**
 - ◆ Family Housing Placement, Fort Wainwright, AK
 - ◆ Family Life Center, Fort Wainwright, AK
 - ◆ NOAA Satellite Operations Building, Fairbanks, AK
 - ◆ Stryker Wash Facility, Fort Wainwright, AK
 - ◆ Physical Fitness Center, Ft. Bliss, TX
 - ◆ Unit Operations Facilities, Ft. Bliss, TX
 - ◆ Barracks Rehabilitation, Ft. Sam Houston, TX
 - ◆ Physical Fitness Center, Ft. Richardson, AK
 - ◆ Family Life Center, Ft. Richardson, AK
 - ◆ Training Support Center, Ft. Wainwright, AK
 - ◆ Warrior in Transition Complex, Ft. Richardson, AK
 - ◆ Battle Command Training Center, Ft. Richardson, AK
 - ◆ Unmanned Aerial Surveillance Hangar, Ft. Bliss, TX

- U.S. Navy**
 - ◆ General Purpose Berthing Wharf, Y-3B
 - ◆ Recapitalization of Bravo Wharfs, U.S. Naval Station, Pearl Harbor
 - ◆ Data Center, Various Locations

- U.S. Air Force**
 - ◆ Hangar Fire Suppression System, Hickam AFB, HI
 - ◆ Physical Fitness Center Complex, Los Angeles AFB, CA
 - ◆ FA-22 Beddown Facilities, Elmendorf AFB, AK
 - ◆ Tactical Missile Maintenance Facility, Andersen AFB, Guam
 - ◆ Conventional Munitions Maintenance Facility, Andersen AFB, Guam
 - ◆ Weapons & Release Systems Shop, Elmendorf AFB, AK
 - ◆ Weapons Load Training Facility, Elmendorf AFB, AK
 - ◆ Aeromedical Clinic, Elmendorf AFB, AK
 - ◆ Arts & Crafts Center, Misawa AFB, Japan

- U.S. Coast Guard**
 - ◆ Tenant Support Building – Sand Island, HI

POLICIES AND PROCEDURES

- Various Clients & Projects**
 - ◆ Klamath County Library System, Klamath Falls, Klamath, OR
 - ◆ City of San Diego Utilities Undergrounding Program, San Diego, CA
 - ◆ University of Oregon Physical Plant, University of Oregon, Eugene, OR
 - ◆ Total Door Market Analysis, Access Control Systems, Inc., Portland, OR
 - ◆ City-Wide Central Mail Handling Process, New York, NY
 - ◆ Change Order Control Process, New York, NY
 - ◆ SVRT Project VE Manual, VTA, San Jose, CA
 - ◆ Caltrans Value Analysis Manuals, Caltrans, HQ, Sacramento, CA
 - ◆ IT Equipment Deployment Process, Caltrans, District 11, San Diego, CA
 - ◆ NEPA Delegation Pilot Program, Caltrans, HQ, Sacramento, CA
 - ◆ Construction Support Costs, Caltrans, District 11, San Diego, CA
 - ◆ Video Display & Control System Infrastructure, District 11, San Diego, CA
 - ◆ Feasibility Study Report Process, District 7, Los Angeles, CA

INDUSTRIAL DESIGN AND MANUFACTURING STUDIES

- Various Clients & Projects**
 - ◆ Fire Place Screens, Portland-Willamette Industries, Portland, OR
 - ◆ Concrete Fire Logs, Portland-Willamette Industries, Portland, OR
 - ◆ Concrete Block Molds, Columbia Machine, Inc., Vancouver, WA
 - ◆ Concrete Block Machinery, Columbia Machine, Inc., Vancouver, WA
 - ◆ Palletizing Equipment, Columbia Machine, Inc., Vancouver, WA
 - ◆ 1.5-Ton Lift Truck, Clark, Inc., Meulheim, Germany