

## **R. GARRISON HARVEY**

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Gary Harvey is Vice President and Principal Consultant at William E. Wecker Associates, Inc. based in Jackson Hole, WY. He received the Bachelor of Science degree in Applied Mathematics from the United States Air Force Academy and the Master of Science degree in Operations Research from the Air Force Institute of Technology. Prior to joining William E. Wecker Associates, Inc. he was an officer in the U.S. Air Force analyzing U.S. force structure and weapon systems performance.

He has served as an expert witness in litigation and arbitration in matters evaluating damages, breach of contract, copyright infringement, consumer product performance, epidemiology, relationship between gun availability and crime, sample design and evaluation, credit card market analysis and profitability, and class certification.

Additionally, he has worked as the principal consultant and project manager on many prominent multi-billion dollar litigations and business consulting engagements including: antitrust matters involving price-fixing, false advertising, unfair competition and monopolization, consumer product safety and performance, environmental damage, class actions alleging disparate impact in insurance, lending and wages, patent and intellectual property matters involving pharmaceutical drugs, petrochemical formulation, and automobile devices.

Mr. Harvey has expertise in statistical and mathematical analysis of data. This expertise includes damage analysis, survey design, analysis and administration, U.S. and international credit card market analysis, profitability and forecasting, human health and epidemiology involving tobacco risks, dynamic propagation of viruses, pharmaceutical drugs, and consumer products; automobile safety and valuation, hospital data analysis, class certification, market analysis, evaluation of insurance claims including allocation among primary and excess insurance carriers; behavioral analysis, environmental damage analysis, regression analysis, survival analysis, Bayesian analysis including imputation of missing data, propensity score analysis, conjoint analysis, forecasting, and big data analysis.

### **EDUCATION**

B.S. (Applied Mathematics) (1988), USAF Academy  
M.S. (Operations Research) (1992), Air Force Institute of Technology

### **PROFESSIONAL EXPERIENCE**

1988 - 1990 Scientific Analyst, USAF, Vandenberg AFB, CA  
1990 - 1992 Graduate Student, USAF, Air Force Institute of Technology  
1992 - 1995 Scientific Analyst, USAF, Scott AFB, IL  
1992 - 1993 Total Quality Management Instructor, USAF, Scott AFB, IL  
1992 - 1995 Adjunct Professor, Belleville Area College, Belleville, IL  
1996 - 1999 Senior Consultant, William E. Wecker Associates, Inc.  
2000 - Vice-President, Principal Consultant, William E. Wecker Associates, Inc.

## **HONORS**

Meritorious Service Medal (MSM) while officer in US Air Force.

Air Mobility Command Officer of the Year, 1993.

Barchi Prize, 1994 Military Operations Research Society.

Best Application of Operations Research/Management Science Achievement Award, 1993. Institute of Management Science/Operations Research Society of America, St. Louis Gateway Chapter.

## **SELECT EXPERT REPORTS, TESTIMONY, DECLARATIONS AND PROCEEDINGS**

- Expert for Visa USA in litigation with credit card issuer. Issues involved damages calculations, breach of contract, consumer product performance, credit card market analysis and profitability.
- Expert for Major League Baseball, National Football League, National Basketball Association and Women's National Basketball Association in Cable Royalty Distribution Proceedings. Issues involved sample analysis of Nielsen data to determine the relative economic value of programming and the allocation of royalty revenues.
- Expert for Allianz SE Insurance Company in asbestos coverage litigation for historical products and operations claims. Issues involved sample design and analysis, products/operation insurance coverage, forecasting, and primary and excess insurance policy allocation analysis.
- Expert for BP Solar International, Inc. in class action litigation. Issues involved damages calculation, product failure analysis, sample design and analysis and forecasting.
- Expert for Chase Bank in litigation with major retail cobrand partner. Issues involved damages calculations, consumer product performance, forecasting, credit card market analysis and profitability of card portfolio.
- Expert for Altria Client Services LLC, testimony at the FDA's Tobacco Products Scientific Advisory Committee regarding a proposed "modified risk" claim.
- Presented my analysis to senior Pentagon officials, Joint Chiefs of Staff, all military four-star generals, all Air Force generals, and members of Congress to determine which aircraft to purchase to maximize capability across various warfighting scenarios. Awarded MSM.
- Expert for Countrywide Home Loans in class action litigation. Issues involved sample design and analysis.
- Expert for gun manufacturers in litigation on gun sales and tracing. Issues involved sample design and analysis, the relationship between gun availability and crime, and forecasting.
- Expert for R.J. Reynolds Tobacco Company in class action litigation. Issues involved epidemiology and data analysis. Estimated the relations between smoking cessation and disease risk.

## **PUBLICATIONS/PRESENTATIONS**

"Constrained System Optimization and Capability Based Analysis" (with K. Bauer, J. Litko), Military Operations Research, Vol 2, No 4, 1997, pp. 5-19.

"Military Modeling and Simulation: Reflections and Directions", 1994 Winter Simulation Conference Proceedings, pp. 741-743.

"Constrained System Optimization and Capability Based Analysis", 62nd Military Operations Research Society, National Meeting, 1993.

"Force Allocation Through Constrained Optimization", 61st Military Operations Research Society, National Meeting 1993. Awarded Best Working Group Paper.

"Experimental Design Considerations in the Optimization of Stochastic Response Surfaces", Sponsored Session presentation, TIMS/ORSA Joint National Meeting, Chicago 1993.

"C-141 Depot Maintenance: Using Simulation to define Resource Requirements" (with T. Schuppe, D. McElveen, P. Miyares), Air Force Journal of Logistics, Winter-Spring 1993, pp. 11-15.

"Force Allocation Through Constrained Optimization of Stochastic Response Surfaces" (with K. Bauer, J. Litko), 1992 Winter Simulation Conference Proceedings, pp. 1121-1129.

"C-141 Depot Maintenance: Using Simulation to Define Resource Requirements" (with T. Schuppe, D. McElveen, P. Miyares), 1992 Winter Simulation Conference Proceedings, pp. 1145-1152.

Invited lectures at: University of Washington in St. Louis, University of St. Louis, United States Air Force Academy, Air Force Institute of Technology, and Pentagon Studies and Analysis group.