



RONALD D. FRICKER, JR.
PROFESSOR AND HEAD
DEPARTMENT OF STATISTICS
VIRGINIA TECH
BLACKSBURG, VIRGINIA

Education: Ph.D. in Statistics, 1997, Yale University
M.A. in Statistics, 1994, Yale University
M.S. in Operations Research, 1991, The George Washington University
B.S. with Merit in Mathematics, 1982, United States Naval Academy

Employment:

Professor and Head, Department of Statistics, Virginia Tech	2015 – present
Professor, Naval Postgraduate School	2013 – 2015
Associate Professor, Naval Postgraduate School	2005 – 2013
Visiting Scholar, Statistics Department, University of California, Riverside	2009 – 2010
Associate Director, NSRD, RAND	2002 – 2004
Professor, RAND Graduate School	1999 – 2004
Adjunct Assistant Professor, USC	1999 – 2004
Senior Statistician, RAND	1997 – 2004
Manager / Member Technical Staff, TRW	1990 – 1997
Manager / Member Technical Staff, JJMA	1987 – 1990
Officer, United States Navy	1982 – 1987

Research interests. Statistical methods to detect bioterrorism incidents; biosurveillance; quality control and statistical process control; survey design and analysis.

Service

- Editorial Board Member, *International Journal of Quality Engineering and Technology*, 2009-present
- Member of the International Review Board of the General Online Research Conference, 2008-present
- Member, Committee to Review of Test Protocols Used by the DOD to Test Combat Helmets, The National Academies, 2012-2015
- Associate Chair for Research, Operations Research Department, Naval Postgraduate School, 2010-2015
- Editorial Board Member, *Statistics and Public Policy*, 2013-2015
- Contributing Editor, *Interfaces*, 2008-2015
- Member, INFORMS Franz Edelman Award Committee, 2008-2014
- Program Committee Member, 2013 International Health Informatics Conference
- Member, Committee to Review the Testing of Body Armor Materials for Use by the U.S. Army, Phase III, The National Academies, 2010-2012
- Editorial Board Member, *Statistics, Politics, and Policy*, 2009-2012
- Program committee member, 2012 Quality and Productivity Research Conference (QPRC)
- Program committee member, 2011 INFORMS Computing Society Conference

- Member, Committee to Review the Testing of Body Armor Materials for Use by the U.S. Army, Phase II, The National Academies, 2010
- Program committee member, 2008 Biosurveillance and Biosecurity Workshop
- Statistical Editor, *Journal of Disaster Medicine and Public Health Preparedness*, 2007-2009
- ASA Section on Statistics in Defense and National Security (SDNS) Council of Sections representative, 2007-2010
- Associate Editor, *Operations Research*, 2002-2009
- Past Chair, Section on Statistics in Defense and National Security, 2007
- Chair, SDNS Committee on Nominations, 2007
- Chair, SDNS Committee on Charter Revision, 2007.
- Chair, Section on Statistics in Defense and National Security, 2006
- Operations Research Department representative to the Systems Engineering Analysis Curriculum Committee (SEACC), Naval Postgraduate School, 2005-2008
- Chair-elect, SDNS, 2004-2005
- Chair, ASA Committee on Statisticians in Defense and National Security, 2004
- Program Chair, ASA Section on Statistics in Defense and National Security, 2004
- Vice-Chair, ASA Committee on Statisticians in Defense and National Security, 2001-2003
- Associate Editor, *Naval Research Logistics*, 2000-2003
- Seminar coordinator for the RAND Statistics Group, 1998-2000
- Membership Chair, the Quality and Productivity Section of ASA, 1998-2000
- Publicity Chair, Section on the Physical and Engineering Sciences of ASA, 1998-2000

Prizes & Awards

- Richard W. Hamming Teaching Award for outstanding teaching, excellence in thesis supervision, and strength of contribution to NPS students beyond the classroom, 2013.
- Letter of Commendation for Excellence in Teaching, awarded for being in the top five percent of finalists for Schieffelin Award, 2012.
- Letter of Commendation for Excellence in Teaching, awarded for being in the top five percent of finalists for Schieffelin Award, 2009.
- Letter of Commendation for Excellence in Teaching, awarded for being in the top five percent of finalists for Schieffelin Award, 2008.
- Northrop-Grumman Faculty Award for Excellence in Systems Engineering Analysis (SEA), awarded by each graduating SEA class to recognize contributions to the students' integrated project, 2008.
- Northrop-Grumman Faculty Award for Excellence in Systems Engineering Analysis (SEA), awarded by each graduating SEA class to recognize contributions to the students' educational experience in the SEA curriculum (co-recipient with M. Stevens), 2007.
- Performance bonus for excellence in distance learning pedagogy, awarded by the Office of Continuous Learning, Naval Postgraduate School, 2007.
- Meyer Award for Teaching Excellence, awarded to a faculty member by students for teaching excellence and/or exceptional contributions to the students' overall learning experience, 2006.
- Barchi Prize runner up, "Using a Bootstrap Approach for Setting Reorder Points in Inventory Systems," Military Operations Research Society, 1999.
- Runner up, Vincent Astor Memorial Leadership Essay Contest, Naval Institute *Proceedings*, United States Naval Institute, 1983.
- Outstanding Operations Analysis student (with Daniel Lynch), United States Naval Academy, 1982.

Publications**Books**

- [1] Fricker, R.D., Jr. (2013). *Introduction to Statistical Methods for Biosurveillance, with an Emphasis on Syndromic Surveillance*, Cambridge University Press.

Journal Papers

- [2] Nesbitt, P., Q. Kennedy, J.K. Alt, and R.D. Fricker, Jr. (2015). Iowa Gambling Task Modified for Military Domain, *Military Psychology*, **27**, 252-260.
- [3] Brown, G.G., W. DeGrange, R.F. Dell, and R.D. Fricker, Jr. (2015). Educating Military Operations Research Practitioners, *Interfaces*, **45**:2, 175-186.
- [4] Yang, J.H., Q. Kennedy, J. Sullivan, and R.D. Fricker, Jr. (2013). Pilot Performance: Assessing How Scan Patterns & Navigational Assessments Vary by Flight Expertise, *Aviation, Space and Environmental Medicine*, **84**:2, 1-9.
- [5] Ruth, D.M., Mastre, T., and R.D. Fricker, Jr. (2013). A Study of Mobile Learning Trends at the US Naval Academy and the Naval Postgraduate School, *EduCAUSE Review Online*.
- [6] Fricker, R.D., Jr., and D. Banschbach (2012). Optimizing Biosurveillance Systems that Use Threshold-based Event Detection Methods, *Information Fusion*, **13**, 117-128.
- [7] Hagen, K.S., R.D. Fricker, Jr., K. Hanni, S. Barnes, and K. Michie (2011). Assessing the Early Aberration Reporting System's Ability to Locally Detect the 2009 Influenza Pandemic, *Statistics, Politics, and Policy*, **2**, issue 1, article 1.
- [8] Fricker, R.D., Jr. (2011). Biosurveillance: Detecting, Tracking, and Mitigating the Effects of Natural Disease and Bioterrorism. *Encyclopedia of Operations Research and the Management Sciences*. Available on-line at <http://onlinelibrary.wiley.com/book/10.1002/9780470400531>
- [9] Fricker, R.D., Jr. (2011). Some Methodological Issues in Biosurveillance (with discussion and rejoinder), *Statistics in Medicine, Statistics in Medicine*, **30**, 403-441.
- [10] Hamrick, T.A., Fricker, R.D., Jr., and G.G. Brown (2010). Assessing What Distinguishes Highly Cited from Less-Cited Papers Published in *Interfaces*, *Interfaces*, **40**, 454-464.
- [11] Fricker, R.D., Jr. (2009). Optimizing Shewhart Charts in Parallel Production Lines, *International Journal of Quality Engineering and Technology*, **1**, pp. 125-135.
- [12] Fricker, R.D., Jr., and J.T. Chang (2008). A Spatio-temporal Methodology for Real-time Biosurveillance, *Quality Engineering*, **20**, pp. 465-477.
- [13] Fricker, R.D., Jr., Hegler, B.L., and D.A. Dunfee (2008). Comparing Syndromic Surveillance Detection Methods: EARS' Versus a CUSUM-Based Methodology, *Statistics in Medicine*, **27**, pp. 3407-3429.
- [14] Joner, M.D., Jr., W.H. Woodall, M.R. Reynolds, Jr., and R.D. Fricker, Jr. (2008). A One-Sided MEWMA Chart for Health Surveillance, *Quality and Reliability Engineering International*, **24**, pp. 503-519.
- [15] Fricker, R.D., Jr., Knitt, M.C., and C.X. Hu (2008). Directionally Sensitive MCUSUM and MEWMA Procedures with Application to Biosurveillance, *Quality Engineering*, **20**, pp. 478-494.
- [16] Fricker, R.D., Jr. (2007). Directionally Sensitive Multivariate Statistical Process Control Methods with Application to Syndromic Surveillance, *Advances in Disease Surveillance*, **3**:1.
- [17] Fricker, R.D., Jr., and H.R. Rolka (2006). Protecting Against Biological Terrorism: Statistical Issues in Electronic Biosurveillance, *Chance*, **19**, pp. 4-13.

- [18] Fricker, R.D., Jr., and M. Schonlau (2002). Advantages and Disadvantages of Internet Research Surveys: Evidence from the Literature, *Field Methods*, **14**, pp. 347-367.
- [19] Talih, M. and R.D. Fricker, Jr. (2002). Effects of Neighborhood Demographic Shifts on Findings of Environmental Justice: A New York City Case Study, *Journal of the Royal Statistical Society*, **165**, pp. 375-397.
- [20] Fricker, R.D., Jr. and N. Hengartner (2001). Environmental Equity and the Distribution of Toxic Release Inventory Sites in New York City, *Environmental and Ecological Statistics*, **8**, pp. 33-52.
- [21] Fricker, R.D., Jr., and C.A. Goodhart (2000). Applying a Bootstrap Approach for Setting Reorder Points in Military Supply Systems, *Naval Research Logistics*, **47**, pp. 459-478.
- [22] Gray M.J., E.H. Ondaatje, R.D. Fricker, Jr., and S.A. Geschwind (2000). Service-learning Through Learn and Serve America, Higher Education, *Change*, **32**, pp. 30-39.
- [23] Schnelle, J.F., Alessi, C.A., Al-Samarrai, N.R., Fricker, R.D., Jr., and J.G. Ouslander (1999). The Nursing Home at Night: Effects of an Intervention on Noise, Light, and Sleep, *Journal of the American Geriatrics Society*, **47**, pp. 430-438.
- [24] Chang, J.T., and R.D. Fricker, Jr. (1999). Detecting When a Monotonically Increasing Mean has Crossed a Threshold, *Journal of Quality Technology*, **31**, pp. 217-233.
- [25] Fricker, R.D., Jr. (1998). Nonrandomness in Microsoft Window's Solitaire, or, Using Electronic Games of Chance for Statistics Projects. *Teaching Statistics*, **20**, pp. 43-45.
- [26] Fricker, R.D., Jr. (1998). Attrition Models of the Ardennes Campaign. *Naval Research Logistics*, **45**, pp. 1-22.
- [27] Fricker, R.D., Jr., and R.A. Wehrle (1996). Shared Inquiry: Learning How to Really Succeed in Business, *National Productivity Review*, **16**, pp. 71-75.
- [28] Fricker, R.D., Jr. (1996). The Mysterious Case of the Blue M&Ms, *Chance*, **9**, pp. 19-22.

Monographs

- [29] Fricker, R.D., Jr. and C. Christine Fair (2003). *Going to the Mines to Look for Diamonds: Experimenting with Military Recruiting Stations in Malls*, MR-1697-OSD, RAND.
- [30] Fricker, R.D., Jr. (2002). *The Effects of Perstempo on Officer Retention in the United States Military*, MR-1556-OSD, RAND.
- [31] Fricker, R.D., Jr., G.O. Jacobson, and L. Davis (2002). *Attempting to Evaluate State and Local Preparedness for a Chemical or Biological Attack*, IP-217, RAND.
- [32] Birkler, J., J. Schank, J. Chiesa, I. Blickstein, R.D. Fricker, Jr., D. Rushworth, and G.K. Smith (2002). *Options for Funding Aircraft Carriers*, MR-1526-NAVY, RAND.
- [33] Schonlau, M., Fricker, R.D., Jr., and M.N. Elliott (2002). *Conducting Research Surveys via E-Mail and the Web*, MR-1480-RC, RAND.
- [34] Fricker, R.D., Jr., E. Reardon, D.M. Spektor, S. Cotton, J. Hawes-Dawson, J. Pace, and S.D. Hosek (2001). *Pesticide Use During the Gulf War: A Survey of Gulf War Veterans*, MR-1018/12-OSD, RAND.
- [35] Fricker, R.D., Jr. and M. Robbins (2000). *Retooling for the Logistics Revolution: Designing Marine Corps Inventories to Support the Warfighter*, MR-1096-USMC, RAND.
- [36] Sloss, E.M., D.M. McCaffrey, R.D. Fricker, Jr., et al. (1999). *Groundwater Recharge with Reclaimed Water: Birth Outcomes in Los Angeles County, 1982-1993*, MR-1077-WRDCS, RAND.
- [37] Gray, M.J., et al. (1998). *Final Report of the Evaluation of the Learn and Serve America, Higher Education Program*, MR-998.0-CNCS, RAND, 1998.

Book Chapters

- [38] Kulzy, W.W., D.J.Y. Combs, and R.D. Fricker, Jr. Using the Social Framework Model of Trust to Better Understand Trust in Government, in *Modeling Sociocultural Influences on Decision Making: Understanding Conflict, Enabling Stability*, Cohn, Nicholson, Schatz, and Combs, eds., to appear.
- [39] Anderson, L.A., and R.D. Fricker, Jr. Understanding Public Opinion Towards Violent Extremists, in *Modeling Sociocultural Influences on Decision Making: Understanding Conflict, Enabling Stability*, Cohn, Nicholson, Schatz, and Combs, eds., to appear.
- [40] Fricker, R.D., Jr., Sampling Methods for Online Surveys, *Handbook of Online Research Methods*, 2nd edition, N. Fielding, R.M. Lee and G. Blank, eds., chapter 14, London: SAGE Publications, to appear.
- [41] Rigdon, S.E., and R.D. Fricker, Jr. (2015). "Health Surveillance" in *Innovative Statistical Methods for Public Health Data*, D-G Chen and J.R. Wilson, eds., Springer, 203-249.
- [42] Fricker, R.D., Jr., S.E. Buttrey, and W. Evans (2014). Visualization for Sociocultural Signature Detection, in *Sociocultural Behavior Sensemaking: State of the Art in Understanding the Operational Environment*, Jill Egeth, Gary Klein, and Dylan Schmorrow, eds., The MITRE Corporation.
- [43] Fricker, R.D., Jr. (2012). Sampling Methods for Web and E-mail Surveys, *SAGE Internet Research Methods*, J. Hughes, ed., London: SAGE Publications. Reprinted from *The SAGE Handbook of Online Research Methods*, N. Fielding, R.M. Lee and G. Blank, eds., chapter 11, London: SAGE Publications, 195-216.
- [44] Fricker, R.D., Jr. and M. Schonlau (2012). Advantages and Disadvantages of Internet Research Surveys, *SAGE Internet Research Methods*, J. Hughes, ed., London: SAGE Publications. Reprinted from Advantages and Disadvantages of Internet Research Surveys: Evidence from the Literature, *Field Methods*, **14**, 347-367.
- [45] Fricker, R.D., Jr. (2011). Biosurveillance: Detecting, Tracking, and Mitigating the Effects of Natural Disease and Bioterrorism, *Encyclopedia of Operations Research and the Management Sciences*, Cochran, J.J. (ed.), John Wiley & Sons Ltd. Available on-line at <http://onlinelibrary.wiley.com/book/10.1002/9780470400531>.
- [46] Fricker, R.D., Jr. (2008). Syndromic Surveillance, *Encyclopedia for Quantitative Risk Analysis and Assessment*, Melnick, E., and Everitt, B. (eds.), John Wiley & Sons Ltd., pp. 1743-1752.
- [47] Fricker, R.D., Jr. (2008). Sampling Methods for Web and E-mail Surveys, *The SAGE Handbook of Online Research Methods*, N. Fielding, R.M. Lee and G. Blank, eds., chapter 11, London: SAGE Publications, pp. 195-216.
- [48] Fricker, R.D., Jr. (2006). Game Theory in an Age of Terrorism: How Can Statisticians Contribute?, *Statistical Methods in Counterterrorism: Game Theory, Modeling, Syndromic Surveillance, and Biometric Authentication*, A. Wilson, G. Wilson, and D.H. Olwell, eds., Springer.
- [49] Stoto, M.A., Fricker, R.D., Jr., et al. (2006). Evaluating Statistical Methods for Syndromic Surveillance, *Statistical Methods in Counterterrorism: Game Theory, Modeling, Syndromic Surveillance, and Biometric Authentication*, A. Wilson, G. Wilson, and D.H. Olwell, eds., Springer.

Technical Reports

- [50] Fricker, R.D., Jr., S.E. Buttrey, and J.K. Alt (2015). "Future Navy Recruiting Strategies," Naval Postgraduate School technical report.

- [51] Kennedy, Q., P. Nesbitt, J.K. Alt, and R.D. Fricker, Jr. (2015). "Cognitive Alignment with Performance Targeted Training Intervention Model: CAPTIM," Naval Postgraduate School technical report, NPS-OR-15-001.
- [52] Fricker, R.D., Jr., W.W. Kulzy, and D.J.Y. Combs (2014). "The Integrative Model of Organizational Trust as a Framework for Understanding Trust in Government," NPS technical report, NPS-OR-14-003.
- [53] Fricker, R.D., Jr., and D.J. Coté (2014). "Facilitating Targeted Interventions in Substance Abuse Treatment Programs Via a Risk Scoring Methodology," Naval Postgraduate School technical report, NPS-OR-14-002.
- [54] Committee on Review of Test Protocols Used by the DoD to Test Combat Helmets (2014). "Review of Department of Defense Test Protocols for Combat Helmets," The National Academies Press, National Research Council.
- [55] Nesbitt, P., Q. Kennedy, J. Alt, R.D. Fricker, Jr., L. Whitaker, J. Yang, J.A. Appleget, J. Huston, and S. Patton (2014). "Understanding Optimal Decision-making in Wargaming," NPS technical report, NPS-OR-14-001.
- [56] Deveans, T., S. Lechtenberg-Kasten, S.E. Buttrey, R.D. Fricker, Jr., J.A. Appleget and W.W. Kulzy (2012). "Africa Knowledge, Data Source, and Analytic Effort (KDAE) Exploration," TRAC-Monterey technical report NPS-TRAC-M-TR-12-037.
- [57] Committee to Review the Testing of Body Armor Materials for Use by the U.S. Army (2012). "Testing of Body Armor Materials: Phase III," The National Academies Press, National Research Council.
- [58] Fricker, R.D., Jr. (2012). "A Sampling Methodology for INSURV Material Inspections," Naval Postgraduate School technical report NPS-OR-12-001.
- [59] Committee to Review the Testing of Body Armor Materials for Use by the U.S. Army (2010). "Testing of Body Armor Materials for Use by the U.S. Army--Phase II: Letter Report," The National Academies Press, National Research Council.
- [60] Fricker, R.D., Jr., and S.E. Buttrey (2008). "Assessing the Effects of Individual Augmentation (IA) on Active Component Navy Enlisted and Officer Retention," Naval Postgraduate School Technical Report, NPS-OR-08-003.
- [61] Fricker, R.D., Jr., S.M. Gates, C. Paul, and K. Ricci (2002). "Employee Perspectives on DoD Civil Service Careers," RAND, PM-1286-1-OSD, March.
- [62] Jacobson, J., S.K. Cotton, R.D. Fricker, Jr., and L. Davis (2001). "Federal Weapons of Mass Destruction Preparedness Programs Survey Respondent Demographics and Survey Fielding Procedures," RAND, PM-1259-OSD, October.
- [63] Pace, J., and R.D. Fricker, Jr. (2001). "Basic Tabulations from the Federal Weapons of Mass Destruction Preparedness Programs Survey: State and Local Responder Assessment of Federal Programs," RAND, PM-1256-OSD, October.
- [64] Cotton, S.K., J. Jacobson, R.D. Fricker, Jr., and L. Davis (2001). "Instrument Design for the Federal Weapons of Mass Destruction Preparedness Programs Survey," RAND, PM-1263-OSD, October.
- [65] Jacobson, J., R.D. Fricker, Jr., and L. Davis (2001). "Sample Design, Respondent Selection, and Construction of Survey Weights for the Federal Weapons of Mass Destruction Preparedness Programs Survey," RAND, PM-1236-OSD, August.
- [66] Kirby, S.N., R.D. Fricker, Jr., B. Williams, and M.C. Harrell (2001). "Manning the Army Special Operations Forces: An Interim Progress Report," RAND, AB-502-A, April.
- [67] Fricker, R.D., Jr. (1998). Survey Sampling Plan for the Survey of Pest Control Problems and Pesticide Use During the Gulf War, RAND, PM-854-OSD, November.

- [68] Geschwind, S., S. Hosek, D. Spektor, E. Reardon, R.D. Fricker, Jr., and J. Hawes-Dawson (1998). "Survey of Pest Control Problems and Pesticide Use During the Gulf War," RAND, PM-859-OSD, September.
- [69] Thie, H.J., R.D. Fricker, Jr., and A. Robbert (1998). "Using Statistical Process Control to Measure Personnel Processes," RAND, PM-776-JS, February.

Other Publications

- [70] Fricker, R.D., Jr. (2016). Letters: False Positives are Statistically Inevitable, *Science*, **351**, 569-570.
- [71] Anderson, L., and R.D. Fricker, Jr. (2015). Raking: An Important and Often Overlooked Survey Analysis Tool, *Phalanx*, **48**, 36-42.
- [72] Kulzy, W.W., and R.D. Fricker, Jr. (2015). The Survey Process: With an Emphasis on Survey Data Analysis, *Phalanx*, **47**, 32-37.
- [73] Fricker, R.D., Jr. (2013). Editorial: The 10th Rothkopf Rankings of Universities' Contributions to the INFORMS Practice Literature, *Interfaces*, **43**:6, 572-577.
- [74] Fricker, R.D., Jr., Kulzy, W.W., and J.A. Appleget (2012). From Data to Information: Using Factor Analysis with Survey Data, *Phalanx*, **45**:4, 30-34.
- [75] Fricker, R.D., Jr. (2012). Editorial: The First Rothkopf Rankings of Non-Academic Organizations, *Interfaces*, **42**:6, 585-590.
- [76] Yang, J.H., Kennedy, Q., Sullivan, J., and R.D. Fricker, Jr. (2012). Scan Patterns on Overland Navigation in Varying Route Difficulty: Is Total Flight Hours (TFH) a Good Measure of Expertise?, Boston, MA: *Human Factors and Ergonomics Society Proceedings*, **56**:1, 1406-1410.
- [77] Major, W.F., Kline, J., and R.D. Fricker, Jr. (2012). Assessing Counter-Piracy Tactics: Is it Better to Fight or Flee?, *Phalanx*, **45**:3, 22-24.
- [78] Fricker, R.D., Jr. (2011). Editorial: The Ninth Rothkopf Rankings of Universities' Contributions to the "INFORMS Practice Literature," *Interfaces*, **41**, 590-598.
- [79] Fricker, R.D., Jr. (2010). Book review: Statistics and Data with R: An Applied Approach Through Examples by Yosef Cohen and Jeremiah Y. Cohen, *The American Statistician*, **64**, 93-94, 2010.
- [80] Fricker, R.D., Jr. (2009). Book review: Fundamentals of Quality Control and Improvement by Amitava Mitra, *Journal of the American Statistical Association*, **104**, 1279-1280.
- [81] Fricker, R.D., Jr. (2009). Editorial: The Eighth Rothkopf Rankings of Universities' Contributions to the "INFORMS Practice" Literature, *Interfaces*, **39**, 533-539.
- [82] Fricker, R.D., Jr. (2009). Book review: Computational Statistics: An Introduction to R by Gunther Sawitzki, *The American Statistician*, **63**, 401-402.
- [83] Fricker, R.D., Jr. (2008). Looking for a Few Good...Statisticians: Being a Government Statistician at the Naval Postgraduate School, *Amstat News*, August.
- [84] Fricker, R.D., Jr., Knitt, M.C., Hegler, B.L., and Dunfee, D.A., and C.X. Hu (2007). SPC Applications in Syndromic Surveillance, *2007 Proceedings of the American Statistical Association, Section on Quality and Productivity* [CD-ROM], Alexandria, VA: American Statistical Association.
- [85] Fricker, R.D., Jr. (2005). Directionally Sensitive Multivariate Statistical Process Control Methods, *2005 Proceedings of the American Statistical Association, Section on Risk Analysis* [CD-ROM], Alexandria, VA: American Statistical Association.
- [86] Fricker, R.D., Jr. (2005). Book review: Cognition and Chance: The Psychology of Probabilistic Reasoning by Raymond S. Nickerson, *Technometrics*, **47**, p. 376.

- [87] Fricker, R.D., Jr. (2003). "You Can Go to Class in Your Pajamas, or, One Reason to Take a Course via e-Learning," *Marshall Magazine*, University of Southern California, Summer.
- [88] Fricker, R.D., Jr. (2001). Book review: A Handbook of Statistical Analyses Using Stata, second edition by Sophia Rabe-Hesketh and Brian Everitt, *Technometrics*, **43**, 496-497.
- [89] Fricker, R.D., Jr. (1999). Book review: Statistical Process Control and Quality Improvement, third edition by Gerald M. Smith, *Technometrics*, **39**.
- [90] Fricker, R.D., Jr. (1997). Book review: Statistical Problem Solving in Quality Engineering by Thomas J. Kazmierski. *Technometrics*, **39**, 227-228, May.
- [91] Fricker, R.D., Jr. (1997). Keep the Best, *Proceedings*, U.S. Naval Institute, **123**, 50-55.
- [92] Fricker, R.D., Jr. (1996). Book review: Statistics as Principled Argument by Robert P. Abelson, *The American Statistician*, **50**, 278-279, August.
- [93] Fricker, R.D., Jr. (1994). The Inherent Difficulties in Applying TQM to a Particular Service Industry. *1994 Proceedings of the Section on Quality and Productivity of the American Statistical Association*, 181-188.
- [94] Fricker, R.D., Jr. (1982). Where Have All the Sailors Gone?, *Proceedings*, U.S. Naval Institute, **108**, 70-73.

Conferences and Symposia

- Invited speaker: "Improving Biosurveillance System Performance," The 4th International Symposium on Statistical Process Monitoring, Padua, Italy, July 2015.
- Invited speaker: "Modeling Trust in Government," Technical Exchange Meeting on Trust Research in the DoD Context, Arlington, VA, May 2013.
- Invited speaker: "Nonparametric Statistics - When Normal Isn't Good Enough," N81 "brownbag" series via VTC, January 2013.
- Invited speaker: "An Overview of the Committee for the Testing of Body Armor Materials for Use by the U.S. Army (Phases I, II, and III)," presentation to National Academy of Sciences Committee on Review of Test Protocols Used by the DoD to Test Combat Helmets, Aberdeen, MD, January 2013.
- Briefing, with LCDR W. Kulzy and LT David Combs: "Modeling Trust in Government: Empirically Assessing Mayer et al.'s Integrative Model of Organizational Trust," Department of State, December 2012.
- Contributed paper, with W. Kulzy, "Modeling and Evaluating Indigeneous Populations' Trust in Government," 2nd International Conference on Cross-cultural Decision Making, San Francisco, CA, July 2012.
- Contributed paper, with J. Rix, "Displaying Survey-based HSCB Data for Decision-makers," 2nd International Conference on Cross-cultural Decision Making, San Francisco, CA, July 2012.
- Contributed paper, with S. Jones, "Using Survey Data to (Help) Parameterize Human Terrain Models," 2nd International Conference on Cross-cultural Decision Making, San Francisco, CA, July 2012.
- Invited speaker, "Optimizing Biosurveillance Systems," Quality and Productivity Research Conference, Long Beach, CA, June 2012.
- Invited speaker, tutorial presentation, "Survey Data in Support of Irregular Warfare: Important Analytic Considerations," Military Operations Research Society Symposium, Monterey, CA, June 2011.

- Invited speaker, panel presentation, “Survey Development and Execution: An Overview,” Military Operations Research Society Symposium, Monterey, CA, June 2011.
- Contributed presentation, “Assessing EARS’ Ability to Locally Detect the 2009 H1N1 Pandemic,” 13th Biennial Conference on Statistical Methods, Decatur, GA, May 2011.
- Invited speaker, “Assessing EARS’ Ability to Locally Detect the 2009 H1N1 Pandemic,” 12th INFORMS Computing Society Conference, Monterey, CA, January 2011.
- Invited speaker, “Summary of Mobile Learning Devices Survey Conducted for CED3,” Knox Lecture, NPS, Monterey, CA, November 2010.
- Poster, “Evaluating Biosurveillance System Performance: Using the Early Aberration Reporting System (EARS) to Detect H1N1 in Monterey County, California,” with LT Katie Hagen, Susan Barnes, Krista Hanni, Kristy Meyer, Bryan Rees, November 2010.
- Invited speaker, “Using and Improving EARS for Local Public Health Biosurveillance,” with Suzie Barnes, California Conference of Local Data Health Managers, August 2010.
- Topic contributed paper, “Assessing the Methodology for Testing Body Armor,” with Alyson Wilson, 2010 Joint Statistical Meetings, August 2010.
- Invited speaker, “Biosurveillance: Detecting, Tracking, and Mitigating the Effects of Natural Disease and Bioterrorism,” with Krista Hanni, MORS Interagency Perspectives Issues and Analysis On-line Meeting, February 2010.
- Invited speaker, “Two Toys I’ve Been Testing,” NPS Distributed Learning Course, Monterey, CA, May 2009.
- Invited speaker, “Optimizing Biosurveillance Systems,” Info-Fusion: Utilization of Multi-Source Data, CDC Symposium on Statistical Methods, Centers for Disease Control and Prevention, April 2009.
- Invited speaker, “Using the Repeated Two-sample Rank Procedure for Detecting Anomalies in Space and Time,” University of California, Santa Cruz, Statistics Department, January 2009.
- Invited speaker, “Using the Repeated Two-sample Rank Procedure for Detecting Anomalies in Space and Time,” University of California, Riverside, Statistics Department, November 2008.
- Invited speaker, “Using Elluminate (and Similar Products) for Distance Learning Teaching,” Naval Postgraduate School Brown Bag Symposium on Using Elluminate, October 2008.
- Invited speaker, “Optimizing Biosurveillance Systems,” 2008 INFORMS, October 2008.
- Invited speaker, “Detecting Anomalies in Space and Time with Application to Biosurveillance,” CNO DFP Critical Infrastructure Vulnerability Workshop, August 2008.
- Invited speaker, “Improving Biosurveillance: Protecting People as Critical Infrastructure,” CNO DFP Critical Infrastructure Vulnerability Workshop, August 2008.
- Topic contributed paper, “Using the Repeated Two-Sample Rank Procedure for Detecting Anomalies in Space and Time,” 2008 Joint Statistical Meetings, August 2008.
- Invited speaker, “Assessing the Effects of Individual Augmentation on the Retention of Navy Personnel,” 2008 Western Economics Association annual conference, July 2008.
- Discussant, “Black and Hispanic Marines: Their Accession, Representation, Success and Retention in the Corps” by A. Quester et al., 2008 Western Economics Association annual conference, July 2008.
- Invited speaker, “The Repeated Two-Sample Rank Procedure for Detecting Anomalies in Space and Time,” 2008 Quality and Productivity Conference, June 2008.

- Invited speaker, “Optimizing Biosurveillance Systems,” Joint session of the 2008 Qualitative Methods in Defense and National Security conference and the closing workshop for the SAMSI Program on Risk Analysis, May 2008.
- Invited speaker, “A Nonparametric Method for Detecting Anomalies in Space and Time,” 2008 Interfaces conference, May 2008.
- Invited speaker, “Assessing the Effects of Individual Augmentation on Navy Retention,” Eighth Annual Navy Workforce Research and Analysis Conference, May 2008.
- Invited speaker, “Assessing the Effects of Individual Augmentation on the Retention of Navy Personnel,” 2008 West Point Workshop: “Real Data – The Art of Statistical Analysis,” April 2008.
- Invited speaker, “Optimizing a System of Threshold-based Sensors,” 2007 Informs Conference, November 2007.
- Keynote speaker, “Statistical Methods for Biosurveillance,” 2007 Army Conference on Applied Statistics, October 2007.
- Invited speaker, “Statistical Methods for Improving Biosurveillance System Performance,” Monterey Homeland Defense Conference, August 2007.
- Invited speaker, “SPC Applications in Syndromic Surveillance,” 2007 Quality and Productivity Conference, June 2007.
- Invited speaker, “Sampling Methods for Internet-based Surveys,” ESRC e-Society Programme and SAGE Handbook of Online Research Methods Colloquium, Royal Society, March 2007.
- Program Committee, Conference on Quantitative Methods in Defense and National Security, February 2007.
- Chair, “Syndromic Surveillance” session, First Annual Conference on Quantitative Methods & Statistical Applications in Defense and National Security, February 2006.
- Contributed paper, “Directionally Sensitive Multivariate Statistical Process Control Methods with Application to Syndromic Surveillance,” Hawaii International Conference on Statistics and Mathematics, January 2006.
- Invited speaker, “Comparing Univariate and Multivariate Methods for Syndromic Surveillance,” Los Alamos National Laboratory, April 2005.
- Invited speaker, “Statistical Methods for Syndromic Surveillance: An Empirical Assessment” for the Conference on Statistics in Counterterrorism, NYU, November 2004.
- Discussant for “Attack, Interdiction, and Response” session at the American Statistical Association (ASA) annual conference, 2004.
- Invited speaker, briefed Undersecretary of Defense for Personnel and Readiness on results of Officer PERSTEMPO research, OUSD(P&R)-sponsored conference, October 2001.
- Pentagon briefing, “Gulf War Illnesses and Pesticide Use in the Gulf War; A Review of the Scientific Literature and a Survey of Recalled Usage,” with G. Cecchine, March 2001.
- Press briefing, Gulf War Illnesses Project on Pesticide Usage, with Undersecretary of Defense for Personnel and Readiness and Special Assistant for Gulf War Illnesses, 2001. Briefing carried live on C-SPAN.
- Invited speaker, “Improving Inventory Performance by “Rightsizing” Inventory Reorder Points,” Interfaces Conference, 2000.
- Invited speaker, “Can Environmental Justice (EJ) Be Addressed Statistically?,” American Statistical Association (ASA) Conference, 2000.

- Invited speaker, “Evaluating the Effects of PERSTEMPO on Junior Officer Retention,” Military Operations Research Society Symposium, 2000.
- Invited speaker, United States Naval Academy Operations Analysis Colloquium, 1999.
- Invited paper, “Using a Bootstrap Approach for Setting Reorder Points in Inventory Systems,” Military Operations Research Society Symposium, 1999.
- Invited speaker, “Using a Bootstrap Approach for Setting Reorder Points in Inventory Systems,” Naval Postgraduate School, 1999.
- Invited session organizer, “Statistical Methods for Assessing Environmental Equity,” American Statistical Association Conference, 1999.
- Contributed paper, “Detecting When a Monotonically Increasing Mean has Crossed a Threshold,” American Statistical Association Conference, 1998.
- Contributed paper, “Nonparametric Control Charts for Multivariate Data,” National Institute for Standards and Technology 1996 Joint Conference.
- Contributed paper, “The Repeated Two-Sample Rank (RTR) Procedure,” American Statistical Association Conference, 1996.
- Invited paper, “The Inherent Difficulties in Applying TQM to a Particular Service Industry,” American Statistical Association Winter Conference, 1994.
- Invited session organizer, “Hard Metrics: Service Industries and the Federal Government,” American Statistical Association Winter Conference, 1994.

Workshops

- Invited attendee, Prediction of Health Risks through ICT: Challenges to Future Research, GAP Second Workshop, Copenhagen, Denmark, November 2008.
- Invited attendee, Workshop on Critical Infrastructure, Chief of Naval Operations Distinguished Fellows Program, Monterey, CA, August 2008.
- Invited attendee, Centers for Disease Control and Prevention BioSense Science meeting, Atlanta, GA, 2005.
- Invited attendee, Department of Homeland Security Center of Excellence - High Consequence Event Merit Review Panel, Washington, DC, 2005.

Teaching Experience

- Professor, Naval Postgraduate School, 2015-present
 - Introductory Statistics (STAT 2004)
- Professor, Naval Postgraduate School, 2005-2015
 - Probability (OA3101)
 - Teach once or twice per year to resident Operations Research students
 - Statistics (OA3102)
 - Teach twice per year to resident Operations Research students
 - Survey Research Methods (OA4109)
 - Teach once per year
 - Developed as a resident elective course; distance learning version to be developed
 - Probability and Statistics (OS3180)
 - Taught course via VTC and in residence for Masters of Science in Systems Engineering (MSSE) curriculum
 - Fundamentals for Naval Analysis (OS2080)

- Developed and taught asynchronous course using pre-recorded internet-based lectures for Masters of Systems Analysis and Systems Analysis Certificate curricula
- Fundamentals for Naval Analysis II (OS3080)
 - Revised and taught as VTC-based course for Masters of Systems Analysis and Systems Analysis Certificate curricula
- Naval Tactical Analysis (OS3680)
 - Taught residence class in Master of Systems Engineering Analysis curriculum
- Probability and Statistics for Systems Engineers (OS2100)
 - Taught course via VTC and in residence for Masters of Science in Systems Engineering (MSSE) curriculum
- Professor, Pardee RAND Graduate School, 1999-2004
 - Empirical Analysis I
 - Statistics and Data Analysis II
- Adjunct Assistant Professor, Marshall School of Business, USC, 1999-2004
 - Applied Statistics for Managers
 - Taught classroom-based, Internet-based, and broadcast-based versions of course
 - Quality Improvement Methods
- Teaching Assistant, Yale University, 1995-1996
 - Stochastic Processes
 - Quality Control and Improvement
 - Optimization I
 - Probabilistic Models
- Engineering Instructor, Surface Warfare Officer School, U.S. Navy, 1985-1987

Short Courses Taught

- “Conducting Military Surveys,” Marine Corps Combat Development Command, Quantico, VA, May 2013.
- “Methodological Issues in Biosurveillance,” Twelfth Biennial CDC/ATSDR Symposium on Statistical Methods, Decatur, GA, April 2009.
- “Survey Research Methods,” Marine Corps Operational Test and Evaluation Activity, Quantico, VA, May 2008.

Theses Supervised

- Evans, William, Lieutenant Commander, USN, “Multivariate Visualization in Social Sciences and Survey Data,” MS in Operations Research, September 2013.
- Tabar, Matthew J., Lieutenant Commander, USN, “Analysis of Decisions Made Using the Analytic Hierarchy Process,” MS in Operations Research, September 2013.
- Cipperley, Benjamin J., Lieutenant Commander, USN, “Modeling Trust in Philippine Insurgent Organizations,” MS in Operations Research, June 2013.
- Timmons, Spencer T., Major, USA, “Modeling Population Demographics and Societal Trends in the Sahel Region of Africa,” MS in Operations Research, June 2013.
- Larrabee, Kevin S., Major, USA, “Assessing the Impact of the Trans-Sahara Counterterrorism Partnership (TSCTP),” MS in Operations Research, June 2013.
- Coté, David J., Major, USMC, “Predictors of Retention in a Homeless Veteran Intervention Program,” MS in Operations Research, December 2012.

- Lee, Byron M., Lieutenant, USN, “A Field Study of Performance Among Embarked Infantry Personnel Exposed to Waterborne Motion,” MS in Operations Research, September 2012.
- Becker, Gina M., Lieutenant, USN, “Human Systems Integration Competency Development for Navy Systems Commands,” MS in Human Systems Integration, June 2012.
- Franta, David., Lieutenant Colonel, Army of the Czech Republic, “SOF as a Learning Organization,” MS in Defense Analysis, June 2012.
- Jones, Steven J., Major, USA, “Modeling Population Perceptions in Support of Irregular Warfare Analysis,” MS in Operations Research, June 2012.
- Maddux, Joseph K., Captain, USMC, “Developing and Assessing Spatio-temporal Indicators for U.S. Africa Command (AFRICOM),” MS in Operations Research, June 2012.
- Christensen, Carl D., Lieutenant, USN, “Profiling Extremist Groups in the Sahel Region of Africa,” MS in Operations Research, June 2012.
- Kulzy, Walter W., Lieutenant Commander, USN, “Modeling Indigenous Population Attitudes in Support of Irregular Warfare Analysis,” MS in Operations Research, March 2012.
- Roberts, Donald A., Lieutenant, USN, “Analysis of Alternative Watch Schedules for Shipboard Operations: A Guide for Commanders,” MS in Operations Research, March 2012
- Gonzalez, Michael D., Lieutenant Colonel, USMC, “Analysis of Promotion Rates to Lieutenant Colonel and Selection for Command for USMC Aviation Supply and Maintenance Officers,” MS in Operations Research, December 2011.
- Rix, Joseph D., Captain, USMC, “Modeling and Visualizing Complex Survey Results: An Application to Counter-Terrorism in the Sahel,” MS in Operations Research, June 2011.
- Schmunk, Christina A., “Assessing the Accuracy of Marine Corps Reserve Active Duty Dates within the Defense Enrollment Eligibility Reporting System,” MS in Operations Research, June 2011.
- Long, James A., Lieutenant, USN, “Optimizing Logistical Planning Factors for Fuel Rate Consumption within the Fifth Fleet Area of Responsibility,” MS in Operations Research, June 2011
- Dao, Jason G., Lieutenant, USN, “Assessing the Effectiveness of Biosurveillance Via Discrete Event Simulation,” MS in Operations Research, March 2011.
- Jackson, Kenneth J., Lieutenant Commander, USN, “Forecast Error Metrics for Navy Inventory Management Performance,” MS in Operations Research, March 2011.
- Korman, Randi M., Lieutenant, USN, “Assessing the ESSENCE Biosurveillance System: Results of a User Survey,” MS in Operations Research, March 2011.
- Negaard, Jon L., Lieutenant, USN, “Modeling Essential Services, Security, Employment, and Economics (MESSEE) in the Sahel Region of West Africa,” MS in Operations Research, March 2011.
- Ganuza, Manuel E., Lieutenant Commander, USN, “Assessing the Effectiveness of Cumulative Sum Normal- and Poisson-based Tests for Detecting Rare Diseases,” MS in Operations Research, December 2010.
- Ray, Kevin, Lieutenant, USN, “Identifying Capabilities Gaps Within Shipboard Visit, Board, Search, Seizure (VBSS) Teams,” MS in Human Systems Integration, December 2010.

- Moeller, Kevin, Lieutenant, USN, “Combating Irregular Warfare: Gaining Insight into Indigenous Populations Via Social Survey Analyses,” MS in Operations Research, September 2010.
- Hagen, Katie, Lieutenant, USN, “Assessing the Effectiveness of the Early Aberration Reporting System (EARS) for Early Event Detection of the H1N1 (“Swine Flu”) Virus,” MS in Operations Research, September 2010.
- Drier, Matthew J., Major, USMC, and Birgl, James S., Major, USMC, “Analysis of Marine Corps Tactical Level Command and Control and Decision Making Utilizing FBCB2-BFT,” MS in Information Technology Management, September 2010.
- Chery, J., Lieutenant USN, “Enhancing Nursing Staff Productivity: A Statistical Analysis of Scheduling and Utilization,” MS in Operations Research, September 2008.
- Rascon, C., Major, USMC, “A Method to Assess and Manage Civilian Lost Work Days (LWD) in the United States Marine Corps,” MS in Operations Research, June 2008.
- Banschbach, D., Lieutenant, USN, “Optimizing a System of Threshold-based Sensors,” MS in Operations Research, March 2008.
- Paisant, M., Lieutenant, USN, “Evaluating the Effect of Individual Augmentation (IA) on United States Navy Officer and Enlisted Retention,” MS in Operations Research, March 2008.
- Hattaway, S., Lieutenant Commander, USN, “Dynamic Allocation of Fires and Sensors (DAFS) Maritime Analysis,” MS in Operations Research, March 2008.
- Robbins, K.A., Jr., Captain, USMC, “Optimizing the U.S. Marine Corps’ Selective reenlistment Bonus Program for Career Force Retention,” MS in Operations Research, September 2007.
- Hegler, Benjamin L., Ensign, USN, and Dunfee, David A., Ensign, USN, "Biological Terrorism Preparedness: Evaluating the Performance of the Early Aberration Reporting System (EARS) Syndromic Surveillance Algorithms," MS in Applied Science (Operations Research), June 2007.
- Knitt, Matthew C., Ensign, USN, and Hu, Cecilia X., Ensign, USN, "A Comparative Analysis of Multivariate Statistical Detection Methods Applied to Syndromic Surveillance," MS in Applied Science (Operations Research), June 2007.
- Conatser, D.G., Major, USMC, “Forecasting U.S. Marine Corps Reenlistments by Military Occupational Specialty and Grade,” MS in Operations Research, September 2006.
- Raymond, J.D., Captain, USMC, “Determining the Number of Reenlistments Necessary to Satisfy Future Force Requirements,” MS in Operations Research, September 2006.
- Lantz, R.W., Captain, USMC, “A Data Mining Approach to Forecasting IED Placement in Space and Time,” MS in Operations Research, September 2006.
- Ginther, T.A., Major, USAR, “Army Reserve Enlisted Aggregate Flow Model,” MS in Operations Research, June 2006.
- Turkes, T., First Lieutenant, Turkish Army, “Fitting Lanchester and Other Equations to the Battle of Kursk Data ,” MS in Operations Research, March 2000.

Grants and Research Funding

- Future Navy Recruiting Strategies: Development of Concepts, Practices, Processes and Procedures to Recruit Generation Z and Alpha, R. Fricker and S. Buttrey co-PIs, \$220,000, 2014-15.
- Navy Recruit Attrition Prediction Modeling, S. Buttrey and R. Fricker co-PIs, \$93,648, 2014-15.
- The Human Social Cultural Behavior Modeling Initiative at the Naval Postgraduate School, Jeff Appleget and Ron Fricker, PIs, Office of Naval Research, \$400,000, 2013.
- JSOTF-P Philippines Survey Data Exploration and Analysis, Ron Fricker, PI, Army TRADOC Analysis Center – Monterey, \$85,000, 2013.
- Deployable Force Protection: Gaps In and Improvements Of, Ron Fricker, PI, U.S. Army TRADOC Analysis Center, \$17,500, 2012.
- Africa Knowledge, Data Source, and Analytic Effort (KDAE) Exploration, Ron Fricker, PI, U.S. Army TRADOC Analysis Center, \$45,000, 2012.
- The Human Social Cultural Behavioral (HSCB) Modeling Initiative at the Naval Postgraduate School, Jeff Appleget and Ron Fricker, PIs, Office of Naval Research, \$160,000, 2011.
- Statistical Tasks in Support of the Board of Inspection and Survey, Ron Fricker, PI, U.S. Navy Board of Inspection and Survey, \$47,000, 2011.
- Modeling Essential Services, Security, Economics and Employment Associated with Attitudes, Ron Fricker, PI, U.S. Army Center for Analysis, \$125,000, 2010.
- Optimizing Threshold-based Surveillance Systems, Ron Fricker, PI, Army Research Office, \$50,000, 2010.
- Statistical Models for Forecasting Insurgent Strikes with Application to Improvised Explosive Device Attacks in Iraq, Ron Fricker and Roberto Szechtman, co-PIs, Office of Naval Research, \$240,000, 2007-8.
- Research on the Effects of Individual Augmentation (IA) on Navy Enlistment and Officer Retention, Ron Fricker and Sam Buttrey, co-PIs, Office of Chief of Naval Personnel, Manpower, Personnel, Training & Education, \$59,946, 2007-8.
- Developing and Evaluating Methods Advanced Statistical Methods for Early Detection of Bioterrorism via Syndromic Surveillance with Application to Homeland Security and National Defense, Naval Postgraduate School, \$247,000, 2005-7.
- Expert Panel on Detection of Aberrations in Surveillance Data, Karen Kafadar, University of Colorado at Denver, and Ron Fricker co-PIs, American Statistical Association Strategic Funding Initiative, \$10,000, 2006.
- Promoting Collaboration and Outreach between Statisticians and Practitioners in National Security and Homeland Defense, Ron Fricker and Laura Schmidt, RAND, co-PIs, American Statistical Association Strategic Funding Initiative, \$4,600, 2005.
- Principal investigator for multiple Department of Defense studies via the National Defense Research Institute, a federally funded research and development center, including:
 - Evaluation of the Effectiveness of Enhanced Recruiting Stations, \$500,000, 2002-2003.
 - Operation Desert Storm/Desert Shield Pesticides Use Survey, \$866,000, 1998-2000.
- Developing Methods for Early Detection of Biological Terrorism Using Advanced Statistical Process Control Methodology, DoD Independent Research and Development funding, \$100,000, 2001-2002.

- Evaluation of Web-based Survey Technology, DoD Independent Research and Development funding, \$120,000, 2000.
- Developing Statistical Methodology and an Analytical Framework for Evaluating Environmental Justice via a Longitudinal Study of Metropolitan New York City, National Science Foundation grant SRB-9816560, \$300,000, 1999-2001.

Panels

- Member, Committee to Review of Test Protocols Used by the DOD to Test Combat Helmets, The National Academies, 2012-14.
- Member, Committee to Review the Testing of Body Armor Materials for Use by the U.S. Army, Phase III, The National Academies, 2011-12.
- Member, Committee to Review the Testing of Body Armor Materials for Use by the U.S. Army, Phase II, The National Academies, 2010.
- Invited expert, Guard Anticipation and Prediction meeting, Copenhagen, Denmark, November 2008.
- Department of Homeland Security Center of Excellence - High Consequence Event Merit Review Panel, 2005.

Reviewer/Referee

- *Journal of the American Statistical Association*
- *The American Statistician*
- *Annals of Applied Statistics*
- *Journal of Computational Statistics and Data Analysis*
- *Journal of Applied Probability & Statistics*
- *Statistical Analysis and Data Mining*
- *Journal of Quality Technology*
- *Quality Engineering*
- *Quality and Reliability Engineering International*
- *Chance magazine*
- *Statistics in Medicine*
- *Epidemiology and Infection*
- *Journal of Disaster Medicine and Public Health Preparedness*
- *Operations Research*
- *Military Operations Research*
- *Naval Research Logistics*
- *IIE Transactions*

Association Memberships

- Fellow, American Statistical Association (ASA)
- Elected Member, International Statistical Institute (ISI)
- Member, Institute of Mathematical Statistics (IMS)