

Title: "Explanatory vs. Predictive Modeling in Scientific Research"

Speaker: Galit Shmueli / University of Maryland

Title: "ARO Probability and Statistics Program"

Speaker: Dr. Harry Chang, U.S. Army Research Office

Title: "Data Mining with Decision Trees"

Speaker: Wei-Yin Loh, University of Wisconsin, Madison

(<http://www.stat.wisc.edu/~loh/guide.html>)

Professor Wei-Yin Loh received his PhD in statistics from the University of California, Berkeley, in 1982 and has been on the faculty of the University of Wisconsin, Madison, since. He is a Fellow of the American Statistical Association and the Institute of Mathematical Statistics and he currently serves on the editorial boards of the ACM Transactions on Knowledge Discovery in Data and the Journal of Machine Learning Research. He has received several awards, with the most recent being the 2007 U.S. Army Wilks award. Professor Loh's research in classification and regression trees is funded primarily by the Army Research Office.

Title: "Reliability Case Study"

Speaker: Alyson Wilson

Dr. Alyson Wilson is a statistician, technical staff member, and project leader in the Statistical Sciences group at Los Alamos National Laboratory. Prior to her move to Los Alamos, Dr. Wilson was a senior operations research systems analyst working in support of the U.S. Army Operational Evaluation Command, Air Defense Artillery Evaluation Directorate. She also spent two years at the National Institutes of Health performing research in the biomedical sciences. She is currently the past chair of the American Statistical Association Section on Statistics in Defense and National Security and a member of the National Academy of Sciences' Panel on Methodological Improvements to the Department of Homeland Security's Biological Agent Risk Analysis. Dr. Wilson received her Ph.D. in 1995 from Duke University. Her research interests include reliability and information combination in scientific problems.

Title: "I could really do great statistics if my data wasn't so lousy"

Speaker: Dr. Dave Olwell, NPS

Title: "An Experimental Investigation of Robotic Technology"

Speaker: Barry A. Bodt, U.S. Army Research Laboratory

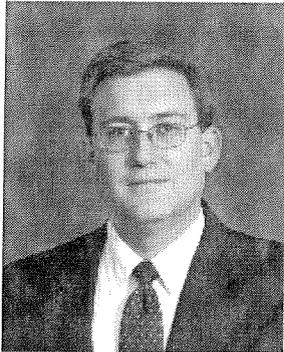
Bio:

Dr. Barry Bodt joined the U.S. Army Research Laboratory in 1980 after receiving his BS in mathematics from the University of Maryland, College Park. He holds a masters and Ph.D. in statistics from the University of Delaware and was the 2006 recipient of the U.S. Army Wilks Medal for statistical contributions. He has chaired the Army

Conference on Applied Statistics since 1991. Dr Bodt has over 100 papers and publications on the development and application of statistical methodology relevant to problems in Army RD&A - munitions research, spall liner development, survivable tire systems, combat simulation, chemical agents and target recognition to name a few. His current focus is on unmanned ground vehicle technology.

Title: "Assessing the Effects of Individual Augmentation on the Retention of Navy Personnel"

Speaker: Dr. Ron Fricker (NPS)



Ronald D. Fricker, Jr.

Operations Research Department
Naval Postgraduate School
1411 Cunningham Road, Rm. 275
Monterey, California 93943

831-656-3034 DSN 756-3048

831-656-2595 (fax)

rdfricker@nps.edu

www.nps.navy.mil/orfacpag/resumePages/fricker.htm

Ronald D. Fricker, Jr. is an Associate Professor in the Operations Research Department of the Naval Postgraduate School (NPS). Prior to joining NPS, Dr. Fricker was a Senior Statistician at the RAND Corporation. He holds a Ph.D. and an M.S. in statistics from Yale University, an M.S. in Operations Research from The George Washington University and a bachelor's degree from the United States Naval Academy.

Professor Fricker's current research is focused on studying the performance of various statistical methods for use in biosurveillance and statistical process control methodologies more generally, predictive modeling of IED attacks in Iraq, and assessing the effects of deployment on military personnel retention. He has published in the *Journal of the Royal Statistical Society*, *Statistics in Medicine*, *Journal of Quality Technology*, *Quality Engineering*, *Naval Research Logistics*, *Teaching Statistics* and *Chance*.

Professor Fricker is a former chair of the Section on Statistics in Defense and National Security and the Committee on Statisticians in Defense and National Security, both of the American Statistical Association. He is also an associate editor of *Operations Research* and the *Journal of Disaster Medicine and Public Health Preparedness*.

Title: "Drowning in Data, Starved for Knowledge: Survival in the World of the Future"

Speaker: Dr. Ben Cole (NSA)

Title: "Recommender Systems for Fun and Profit"

Speaker: Dr. Chris Volinsky (AT&T)

Chris Volinsky is Director of the Statistics Research Department at AT&T Research in Florham Park, N.J. Chris got his PhD from the University of Washington in 1997 studying Bayesian Model Averaging. He joined AT&T Research in 1997 and became Director of the Statistics Research Department in 2004. His data mining research at AT&T includes recommender systems, analysis of massive graphs, social networks, statistical computation and visualization, and fraud detection in telecommunications.

Title: "Statistical Challenges with Massive Data Sets"

Speaker: Dr. Karen Kafadar (Rudy Professor of Statistics and Physics Indiana University)

Bio:

Dr. Kafadar is Rudy Professor of Statistics and Physics at Indiana University. She received her B.S. and M.S. degrees from Stanford and her Ph.D. in Statistics from Princeton under John Tukey. Her research focuses on exploratory data analysis, robust methods, characterization of uncertainty in quantitative studies, and analysis of experimental data in the physical, chemical, biological, and engineering sciences. Prior to Indiana University, she was Professor and Chancellor's Scholar in the Departments of Mathematical Sciences and Preventive Medicine & Biometrics at the University of Colorado-Denver; Fellow at the National Cancer Institute (Cancer screening section); and Mathematical Statistician at Hewlett Packard Company (R&D laboratory for RF/Microwave test equipment) and at National Institute of Standards and Technology (where she continues as Guest Faculty Visitor on problems of measurement accuracy, experimental design, and data analysis). Previous engagements include consultancies in industry and government as well as visiting appointments at University of Bath, Virginia Tech, and Iowa State University. She has served on previous NRC committees and also on the editorial review boards for several professional journals as Editor or Associate Editor and on the governing boards for the American Statistical Association, the Institute of Mathematical Statistics, and the International Statistical Institute. She is an Elected Fellow of the American Statistical Association and the International Statistical Institute, and has authored over 80 journal articles and book chapters, and has advised numerous M.S. and Ph.D. students.

Title: "Interval Estimation for Normal-based Proportions: An Application from Armor Testing"

Speaker: Mr. Dave Webb

Mathematical Statistician and Team Leader with the Weapons and Materials Research Directorate of the US Army Research Laboratory at APG. Have been with ARL (and its predecessor Ballistic Research Laboratory) since 1985. Served on USMA Math Dept faculty in AY 02-03 as ARL Visiting Scientist. Earned M.S. in Statistics from University of Delaware.