



Promoting the Practice and Profession of Statistics

AMERICAN STATISTICAL ASSOCIATION COMMITTEE ON ENERGY STATISTICS

MAXIMILIAN AUFFHAMMER (2011-2016)

Maximilian Auffhammer joined the faculty at UC Berkeley in 2003. Professor Auffhammer received his B.S. in environmental science from the University of Massachusetts at Amherst in 1996, a M.S. in environmental and resource economics at the same institution in 1998 and a Ph.D. in economics from UC San Diego in 2003. His research focuses on environmental and resource economics, energy economics and applied econometrics. He is a Faculty Research Fellow at the National Bureau of Economic Research in the Energy and Environmental Economics group, a Humboldt Foundation Fellow, and a lead author for the Intergovernmental Panel on Climate Change (IPCC). Professor Auffhammer serves on the editorial board of the *Journal of Environmental Economics and Management*. His research has appeared in *The American Economic Review*, *The Review of Economics and Statistics*, *The Economic Journal*, the *Proceedings of the National Academies of Sciences*, the *Journal of Environmental Economics and Management*, *The Energy Journal* and other academic journals. Professor Auffhammer is the recipient of the 2007 Cozzarelli Prize awarded by the National Academies of Sciences, the 2009 Campus Distinguished Teaching Award and the 2007 Sarlo Distinguished Mentoring Award.

LEON E. CLARKE (2011-2016)

Leon Clarke is a Senior Research Economist at JGCRI and leads JGCRI's Integrated Modeling & Energy group. Dr. Clarke's current research focuses on the role of technology in addressing climate change, international climate policy, scenario analysis, and integrated assessment model development. Dr. Clarke coordinated the U.S. Climate Change Science Program's emissions scenario development process (SAP 2.1a), he was a contributing author on the Working Group III contribution to the IPCC's Fourth Assessment Report, he coordinated and co-edited the Energy Modeling Forum 22 Transition Scenarios project, and he was a member of the National Academy Study on America's Climate Choices. He is currently a lead author on the IPCC's Special Report on Renewable Energy, and he will be a coordinating lead author on the Working Group III contribution to the IPCC's Fifth Assessment Report. Prior to joining PNNL, Dr. Clarke worked for Lawrence Livermore National Laboratory, Pacific Gas & Electric Company, and RCG/Hagler, Bailly, Inc. He was also a research assistant at Stanford's Energy Modeling Forum. Dr. Clarke received B.S. and M.S. degrees in Mechanical Engineering from U.C. Berkeley and M.S. and Ph.D. degrees in Engineering Economic Systems and Operations Research at Stanford University.

MICHAEL COHEN (2009-2016)

Michael L. Cohen is a Senior Program Officer for the National Research Council's Committee on National Statistics. Previously, he was a mathematical statistician at the Energy Information Administration, an assistant professor in the School of Public Affairs at the University of Maryland, a research associate at the Committee on National Statistics, and a visiting lecturer at the Department of Statistics, Princeton University. His general area of research is the use of statistics in public policy, with particular interest in census undercount and model validation. He is also interested in robust estimation. He has a B.S. degree in mathematics from the University of Michigan and M.S. and Ph.D. degrees in statistics from Stanford University.

KATHLEEN B. COOPER (2014-2016)

Kathleen B. Cooper is Senior Fellow and Professor of the Practice of Economic Policy at SMU's John G. Tower Center for Political Studies. She holds a Ph.D. degree in economics from the University of Colorado and has served in a variety of positions, including Under Secretary for Economic Affairs at the U.S. Commerce Department, Chief Economist for the Exxon Mobil Corporation, Executive Vice President of Security Pacific National Bank and Dean of the College of Business at the University of North Texas. Dr. Cooper is currently chair of the National Bureau of Economic Research, director of the Williams Companies and Deutsche Bank Trust Company of the Americas, and a member of the Council on Foreign Relations. She has held positions as president of the National Association for Business Economics and the U.S. Association for Energy Economics, chair of the American Bankers Association's Economic Advisory Committee, and founding director of Texas Security Bank.

JOEL LAWRENCE HOROWITZ (2011-2015)

Joel Lawrence Horowitz is a Professor of Economics at Northwestern University, Evanston, IL. Previously, he was a Professor in the Department of Economics at the University of Iowa, a Senior Operations Research Analyst at the U.S. Environmental Protection Agency and a Professorial Lecturer (part time) in the Department of Operations Research at The George Washington University. He was also a member of the Technical Staff, Research Analysis Corporation, McLean, VA. Dr. Horowitz holds a Ph.D. in Physics from Cornell University and a B.S. in Physics from Stanford University. He has to his credit numerous publications, honors, visiting appointments, memberships in professional societies and other professional activities. Research interests focus on theoretical and applied econometrics with expertise in the areas of econometric theory, semiparametric and nonparametric estimation, bootstrap methods, functional data analysis, and estimation of high-dimensional models.

FRED JOUTZ (2013-2015)

Fred Joutz is a Professor of Economics and Co-director of the Research Program on Forecasting at the George Washington University. His research focuses on macroeconomic and energy econometric modeling and forecasting. He contributes quarterly macroeconomic forecasts to the Federal Reserve Bank of Philadelphia and the Survey of Professional Forecasters and the Economic Survey International ESI by the CES/Ifo Institute for Economic Research. He has served as a consultant and technical expert to Energy Information Administration, the IMF, the UAE, Uzbekistan, Barbados, Suriname, King Abdullah Petroleum Studies and Research Center, the American Gas Association, New England Power Pool, Consumers Energy, the U.S. and European Patent Offices, and other private corporations and government agencies. In addition, he has been a Research Scholar at the IMF. This work has involved writing research reports, developing econometric models and forecasting models, providing technical support, and conducting technical workshops and training sessions. It has included work on EIA's Short-Term Energy Outlook (STEO), Annual Energy Outlook (AEO and NEMS), and International Energy Outlook (IEO). He is a Senior Fellow of the US Association of Energy Economics. He has been an associate editor for Energy Economics and the International Journal of Forecasting. Previously he was a visiting professor at the Norwegian University of Science and Technology, a visiting assistant professor at Oberlin College and worked at Resources for the Future.

NANCY KIRKENDALL (2009-2014)

Nancy J. Kirkendall is an independent contractor. She retired from the Energy Information Administration in 2008, where she served as Director of the Statistics and Methods Group. Kirkendall earned a Ph.D. in Mathematical Statistics from George Washington University; MS in Mathematics from Ohio State University; and BS in Mathematics from Ohio State University. Her research interests include statistical policy, quality control and quality assurance, survey methodology, and time series analysis;

FRAUKE KREUTER (2014-2016)

Frauke Kreuter is an Associate Professor in the Joint Program in Survey Methodology at the University of Maryland; Professor of Statistics at Ludwig-Maximilians-Universität in Munich, Germany; and head of the Statistical Methods Research Department at the Institute for Employment Research (IAB) in Nürnberg, Germany. She received her Master in Sociology from the University of Mannheim, Germany and her PhD in Survey Methodology from the University of Konstanz. Before joining the University of Maryland she held a postdoc at the UCLA Statistics Department. Her research focuses on sampling and measurement errors in complex surveys. In her work at JPSM she maintains strong ties to the Federal Statistical System, and served in advisor roles for the National Center for Educational Statistics and the Bureau of Labor Statistics.

ANDY S. KYDES (2013-2015)

Andy S. Kydes was the Senior Technical Advisor to the Office of Integrated Analysis and Forecasting in the Energy Information Administration from 1992 to March 2011, the date of his retirement from the government. As an employee at EIA, Dr. performed quality control and quality assurance on all aspects of mid-term modeling and analysis of EIA products. As a consultant to EIA, Dr. Kydes assisted EIA in performing quality assurance on the development of several cases of AEO2013. Dr. Kydes has also provided analytical services to MRIGlobal and to other firms. Prior to joining the Energy Information Administration, Dr. Kydes served as the Manager of Natural Gas Forecasting, Planning and Financial Matters with the Consolidated Edison Company of New York in the Gas Supply Department where he managed strategic, operational and contingency planning, supply adequacy analysis; he directed numerous special studies for corporate investment planning.

From 1987 to 1989, Dr. Kydes worked at Argonne National Laboratory where he performed policy analysis and modeling for the Office of Policy, Planning, and Analysis in the U.S. Department of Energy. Prior to joining Argonne National Laboratory, Dr. Kydes performed and directed energy research, large-scale modeling, and forecasting at Brookhaven National Laboratory (BNL) in support of the U.S. Department of Energy. He was also a member of the faculty in the College of Urban and Policy Science, State University of New York at Stony Brook teaching applied mathematics, statistics, and programming.

Dr. Kydes graduated from Harvard University with a Bachelor of Arts in Engineering and Applied Physics and received an M.S. and a Ph.D. in Applied Mathematics from the State University of New York at Stony Brook.

ISRAEL MELENDEZ (2009-2014)

Israel Melendez is Vice President – Grid Optimization at Constellation Energy Commodities Group. The Grid Optimization Group that he created performs transmission system analysis and fundamental market simulations to support power-related commercial activities, including power plant development, power trading, load and power deal origination, load auctions, and financial congestion revenue rights allocations and auctions. Melendez serves as voting member on several power industry committees, including the NERC Planning Committee, NERC Transmission Issues Subcommittee, and is Vice Chair of Midwest Independent System Operator's Data Transparency Working Group. He has twenty-eight years of industry experience holding various positions in power production, transmission, marketing, and trading. Melendez has an MBA and an MSF from Loyola College in Maryland and earned his Bachelor's degree in Electrical Engineering from Johns Hopkins University. Additionally, he is a graduate of Calhoun MEBA Marine Engineering School and has been a licensed Marine Engineer.

JOHN H. SCHUENEMEYER (2010-2015)

Dr. Schuenemeyer is President of Southwest Statistical Consulting, LLC located in southwest Colorado. He has been a statistical consultant for over 30 years. He is a Professor Emeritus of Statistics, Geography, and Geology at the University of Delaware, where he served as a faculty member in Department of Mathematical Sciences from 1976-1998 and directed the statistical consulting center at the University. In 1991, Dr. Schuenemeyer was elected a Fellow of the American Statistical Association (ASA). He is the recipient of the International Association for Mathematical Geosciences (IAMG) 2004 John Cedric Griffiths Teaching Award and was named IAMG Distinguished Lecturer for 2012. He is the author of over 100 research publication and is active in several professional societies. His research activities include developing large complex Monte Carlo models with application to the assessment of undiscovered energy resources including gas hydrates. His other interests include graphics, the use of analogs, expert judgment, classification, spatial statistics and statistical computing. He hold a PhD in statistics from the University of Georgia.

RACHAEL SHWOM (2013-2015)

Rachael Shwom is an assistant professor in the Human Ecology department at Rutgers University. She earned her Ph.D. in Sociology with a specialization in Environmental Science and Policy at Michigan State University in 2008. Her dissertation research focused on how different governmental, business, and environmental organizations sought to influence U.S. policies on appliance energy efficiency over the past three decades. She has also researched formation of public opinions on climate change, social science's role in enabling decision-makers to act on climate change under uncertainty, and media's coverage of climate change. In the future, she will continue her research on environmental and energy advocacy organizations and the factors that influence their decisions. She is also interested in the role of social institutions and consumption patterns.

ROBERT STINE (2014-2017)

Robert Stine is Professor of Statistics in the Wharton School of the University of Pennsylvania. His research spans a variety of areas with practical applications, ranging from forecasting and spatial temporal models to fundamentals of multiple testing and methods for text analysis. Recent projects consider methods for selecting factors for predictive models from large databases, with particular relevance to the selection of factors that produce cost-effective decisions. These methods are crucial in the development of predictive models in data mining. His research has appeared in numerous academic journals, including the *Journal of the American Statistical Association*, *Journal of the Royal Statistical Society*, and the *Annals of Statistics*. His teaching has been recognized by awards in both the Wharton MBA and Undergraduate programs, and he is the co-author of a recent textbook *Business Statistics: Decision Making and Analysis*.

LYNN STOKES (2013-2015)

Lynne Stokes is Professor of Statistical Science at Southern Methodist University, where she has been since 2001. Prior to that, she was a Professor at University of Texas at Austin in the Department of Management Science and Information Systems. She holds a Ph.D. in Statistics from the University of North Carolina at Chapel Hill and a B.A. in Mathematics from the University of the South in Sewanee, TN. Her research interests are sampling methods, modeling of non-sampling errors in surveys, dual frame estimation, and capture recapture models. Her research has been supported by the U.S. Department of Education, Environmental Protection Agency, Bureau of the Census, and the National Oceanic and Atmospheric Administration. Dr. Stokes has served on several National Academy of Sciences panels, on ASA's Census Bureau Advisory Committee, and is currently on the Design and Analysis Committee of for the National Assessment of Educational Progress. She is a past editor of *The American Statistician* and has served on the editorial boards of the *Journal of Official Statistics*, *Survey Methodology*, and *Journal of the American Statistical Association*. She is a Fellow of the American Statistical Association.