

# Committee on Assessing the Minerva Research Initiative and the Contribution of Social Science to Addressing Security Concerns

## Biographical Sketches

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**ALLEN L. SCHIRM** retired from Mathematica Policy Research after holding several positions, including vice president, director of human services research, director of methods, and senior fellow. Dr. Schirm has extensive experience conducting evaluations and deriving statistical estimates pertaining to federal and state programs for food and nutrition assistance as well as education and other support programs for at-risk youth. He is a National Associate of the National Academies of Sciences, Engineering, and Medicine, having contributed to 16 NASEM reports and chaired the Panel on Estimating Children Eligible for School Nutrition Programs Using the American Community Survey. Additional committee service includes the 2018 Census End-to-End Test and Key Issues for the 2020 Census Workshop Steering Committee; the Committee on Affordability of National Flood Insurance Program Premiums; the Panel on the Design of the 2010 Census Program of Evaluations and Experiments; the Panel on Research on Future Census Methods; the Panel on a Review of Statistical Issues in the Allocation of Federal and State Program Funds; and the Panel on Estimates of Poverty for Small Geographic Areas. Dr. Schirm is a fellow of the American Statistical Association (ASA) and former chair of the ASA Social Statistics Section. He has a Ph.D. in economics from the University of Pennsylvania.

**BURT S. BARNOW** is Amsterdam professor of public service and of economics at George Washington University. Prior to joining George Washington University, Dr. Barnow was associate director for research at Johns Hopkins University's Institute for Policy Studies. He also worked at the Lewin Group and at the U.S. Department of Labor, including four years as director of the Office of Research and Evaluation in the Employment and Training Administration. He has extensive experience conducting research on implementation of large government programs, and has published widely in the fields of labor economics and evaluation. He has been a member of eight other NASEM committees, most recently the Committee for the Context of Military Environments: Social and Organizational Factors; Committee on Emerging Workforce Trends in the U.S. Energy and Mining Industries; Committee on Science, Technology, Engineering and Mathematics Workforce Needs for the U.S. Department of Defense and the U.S. Defense Industrial Base; Committee on External Evaluation of NIDRR and its Grantees; and Committee to Review EPA's Title 42 Hiring Authority for Highly Qualified Scientists and Engineers. Dr. Barnow also served two terms on the NASEM Board on Higher Education and the Workforce. He received a Ph.D. in economics from the University of Wisconsin–Madison.

**SUSAN E. COZZENS** is professor emeritus of public policy at the Georgia Institute of Technology. She previously served as director of the Technology Policy and Assessment Center, and associate dean for research in the Ivan Allen College at Georgia Tech. Her research interests are in science, technology, and innovation policies in developing countries, including issues of equity, equality, and development. She is active internationally in developing methods for research assessment and science and technology indicators. From 1995 through 1997, Cozzens was director of the Office of Policy Support at the National Science Foundation (NSF) where she coordinated policy and management initiatives for the NSF director, primarily in peer review, strategic planning, and assessment. Dr. Cozzens prior service on NASEM committees includes: the Committee on Review of EPA's "Science to Achieve Results" Research Grants Program; the Committee on the Review of NIOSH Research Programs; and the Committee on Evaluating the Efficiency of Research and Development Programs at the Environmental Protection Agency. She has a Ph.D. in sociology from Columbia University.

**KAREN S. COOK (NAS)** is the Ray Lyman Wilbur professor of sociology, director of the Institute for Research in the Social Sciences, and vice-provost for faculty development and diversity at Stanford University. She conducts research on social exchange networks, power and influence dynamics, inter-group relations, negotiation strategies, social justice, and trust in social relations. Dr. Cook's research underscores the importance of trust in facilitating exchange relationships and of networks in creating social capital. She has edited and co-edited a number of books in the Russell Sage Foundation Trust Series. She received the ASA Social Psychology Section Cooley Mead Award for Career Contributions to Social Psychology. She is a member of the National Academy of Sciences, the American Academy of Arts and Sciences, the Board of Trustees of the Russell Sage Foundation, and the SBE Advisory Committee at the National Science Foundation. Dr. Cook is a current member of the National Academy of Sciences, Engineering, and Medicine (NASEM) Division Committee for the Behavioral and Social Sciences and Education, and has served on a large number of other NASEM committees in the past. She has a Ph.D. in sociology from Stanford University.

**BARBARA ENTWISLE** is Kenan distinguished professor of sociology and was formerly vice chancellor for research at the University of North Carolina at Chapel Hill. She also served as director of the Carolina Population Center (CPC) and as CPC's training program director. Dr. Entwisle studies social context and demographic and health behavior and outcomes. Her recent research includes examining the demographic responses to rapid social change, migration and social networks, and the interrelationships between population and environment in Northeast Thailand. She has been involved in the design and implementation of innovative social surveys around the world, including Add Health, the China Health and Nutrition Survey, the Russia Longitudinal Monitoring Survey, and the Nang Rong Surveys. She has served on several committees of the National Academy of Sciences, Medicine, and Engineering, including most recently as chair of the Standing Committee on the Future of Major NSF-Funded Social Science Surveys, and as members of the Board on Research Data and Information and Committee on Population. Dr. Entwisle received her Ph.D. in sociology from Brown University.

**IVY ESTABROOKE** is executive director of PolarityTE, Inc., in Salt Lake City, Utah. Prior to this she was executive director of the Utah Science Technology and Research Initiative (USTAR) and program officer for basic research in the Expeditionary Maneuver Warfare & Combating Terrorism Department at the Office of Naval Research (ONR). While at the ONR, she managed a high risk/high payoff research portfolio including cutting edge social and computational science programs and innovative neuroscience programs. She has also developed and implemented a strategy for examining emerging technology areas globally. Additionally, she led the department's efforts in support of Science Technology Engineering and Mathematics Education efforts, and managed a multi-million dollar yearly investment in the Sciences Addressing Asymmetric Explosive Threats basic research efforts for the ONR. Estabrooke is a former AAAS Science and Technology Policy fellow. She previously served on the Committee on the Value of Social and Behavioral Science to National Priorities and the Committee on the Role of Experimentation Campaigns in the Air Force Innovation Life Cycle. She holds an M.S. in national security strategy and resource management from the Eisenhower School of the National Defense University (formerly ICAF) and a Ph.D. in neuroscience from Georgetown University.

**PAUL A. GADE** retired as a senior research psychologist and the chief of the Basic Research Unit of the U.S. Army Research Institute for the Behavioral and Social Sciences (ARI), where he developed and led ARI's intramural and extramural basic research programs for over 10 years. He currently holds a research professor appointment in the organizational sciences and communications department at George Washington University, where his work is focused on the history of ARI. Dr. Gade's professional interests are in military psychology history, theories and applications of intelligence and individual differences, and the neuroscience of how the brain generates the mind. His current research is on the history of military psychology. He is a fellow of the American Psychological Association (APA), past president of the APA Society for Military Psychology, and current Society historian. He received the Society's Charles S. Gersoni award for outstanding contributions to military psychology. Dr. Gade serves on the editorial board for the *Journal of Military Psychology* and is editor for the spotlight on history column in *The Military Psychologist*, the Society for Military Psychology's newsletter. He received his Ph.D. in experimental psychology from Ohio University.

**ROBERT M. HAUSER (NAS)** is the executive officer of the American Philosophical Society. Formerly he served as executive director of the Division of Behavioral and Social Sciences and Education at the National Academy of Sciences, Engineering, and Medicine. Dr. Hauser is the Vilas research professor and Samuel Stouffer professor of sociology, emeritus, at the University of Wisconsin-Madison. His research interests include statistical methodology, trends in social mobility and in educational progression and achievement, the uses of educational assessment as a policy tool, and changes in socioeconomic standing, cognition, health, and well-being across the life course. He has been an investigator on the Wisconsin Longitudinal Study (WLS) since 1969 and led the study from 1980 to 2010. While at the University of Wisconsin-Madison, he directed the Center for Demography and Ecology, the Center for Demography of Health and Aging, and the Institute for Research on Poverty. Dr. Hauser is a member of the National Academy of Sciences, American Academy of Arts and Sciences, the National Academy of

Education, and the American Philosophical Society. He earned a Ph.D. in sociology from the University of Michigan.

**STEVEN HEERINGA** is a senior research scientist at the University of Michigan Institute for Social Research (ISR). He is a member of the faculty of the University of Michigan Program in Survey Methods and the Joint Program in Survey Methodology. Dr. Heeringa has over four decades of experience developing research designs for ISR's major longitudinal and cross-sectional survey programs and was the University of Michigan principal investigator for the multi-center Army STARRS study of suicide and adverse mental health outcomes in U.S. Army soldiers. He has served as a sample design consultant to international research programs in over 30 countries worldwide, including Russia, the Ukraine, Uzbekistan, Kazakhstan, India, Nepal, China, Egypt, Iran, the United Arab Emirates, Qatar, South Africa, and Chile. Dr. Heeringa is a fellow of the American Statistical Association and elected member of the International Statistical Institute. He currently serves as member of the National Academy of Sciences, Engineering, and Medicine's Committee to Evaluate the Department of Veterans Affairs Mental Health Services and formerly served on the Panel on Statistical Methods for Measuring the Group Quarters Population in the American Community Survey. He has a Ph.D. in biostatistics from the University of Michigan.

**DANIEL R. ILGEN** is John A. Hannah distinguished professor of psychology and management at Michigan State University. He previously held faculty appointments at the University of Illinois, Urbana-Champaign, the U.S. Military Academy, West Point, and Purdue University. Dr. Ilgen's research is in the areas of work motivation, team behavior, and leadership. He is a fellow of the Association for Psychological Science, the American Psychological Association, the Academy of Management, the International Association of Applied Psychology, and the Society for Industrial and Organizational Psychology. He received the Distinguished Scientific Contributions Award from the Society of Industrial and Organizational Psychology and the Herbert A. Henneman, Jr. Lifetime Career Achievement Award given by the Human Resources Division of the Academy of Management. He has served in numerous roles for the National Academy of Sciences, Engineering, and Medicine including as a member of the Board on Behavioral, Cognitive, and Sensory Sciences, a member of the Committee on Human Factors, and as a member of study panels on pay for performance, human protection in social and behavioral research, and future human behavior needs in soldier systems. Dr. Ilgen received his Ph.D. in psychology from the University of Illinois.

**VIRGINIA LESSER** is director of the Survey Research Center and department chair and professor in the department of statistics at Oregon State University. Her expertise includes survey methodology, applied statistics, environmental statistics, and ecological monitoring. Dr. Lesser is a fellow of the American Statistical Association and an elected member of the International Statistical Institute. She has served on several NASEM committees including: the Committee on Capitalizing on Science, Technology, and Innovation: An Assessment of the Small Business Innovation Research Program-Phase II; Panel on the Review of the Study Design of the National Children's Study Main Study; Panel on Survey Options for Estimating the Illegal Alien flow at the Southwest Border; Panel to Review the Occupational Information Network; and Committee on

the Review of the National Institute of Safety and Health/Bureau of Labor Statistics Respirator Use Survey Program. She has a Ph.D. in biostatistics from the University of North Carolina, Chapel Hill.

**ARTHUR LUPIA** is assistant director of the National Science Foundation in Alexandria, Virginia. Prior to this he was Hal R. Varian professor of political science and research professor at the Institute for Social Research at the University of Michigan. His research explores how information and institutions affect policy and politics with a focus on how people make decisions when they lack information. Dr. Lupia is also interested in issues related to data access and research transparency, and the value of social science and political science. His work draws from multiple scientific and philosophical disciplines and uses multiple research methods. He is the recipient of many honors and awards including: the Ithiel de Sola Pool Award from the American Political Science Association, the Warren Mitovsky Innovators Award from the American Association of Public Opinion Research and the NAS Award for Initiatives in Research from NASEM. He has been a Carnegie fellow, a Guggenheim fellow, and a fellow at the Center for Advanced Study in the Behavioral Sciences. He is an elected fellow of the American Association for the Advancement of Science and an elected member of the American Academy of Arts and Sciences. He is chair of the board at the Center for Open Science, and has served as an editorial board member for several journals, including the *American Journal of Political Science*, *American Political Science Review*, *Journal of Politics*, *Political Analysis*, *Political Behavior*, *Public Opinion Quarterly*, and *State Politics and Policy Quarterly*. Dr. Lupia is a current member of the NASEM Division Committee for the Behavioral and Social Sciences and Education, and recently chaired the NASEM Roundtable on the Communication and Use of Social and Behavioral Sciences. He received his Ph.D. in political science from the California Institute of Technology.

**KATHRYN E. NEWCOMER** is director of the Trachtenberg School of Public Policy and Public Administration at George Washington University and professor of public policy and public administration. She frequently conducts research and training for federal and local government agencies and nonprofit organizations on performance measurement and program evaluation, and has designed and conducted evaluations for several federal agencies and dozens of nonprofit organizations. Dr. Newcomer is the editor of the *Handbook of Practical Program Evaluation*, a fellow of the National Academy of Public Administration, and president of the American Evaluation Association. She has received two Fulbright awards to conduct research in Taiwan and in Egypt. Her service on NASEM committees includes membership on: the Committee on Review of Specialized Degree-Granting Graduate Programs of the DoD in Science, Technology, Engineering, Mathematics (STEM) and Management; the Committee on External Evaluation of NIDRR and its Grantees; the Committee on Laboratory Security and Personnel Assurance Systems for Laboratories Conducting Research on Biological Select Agents and Toxins; the Committee on a Review of United States Institute of Peace Senior Fellows Program; and Committee on Approaches for an Evaluation of the NIST/NRC Postdoctoral Research Associateships Program. Dr. Newcomer received a Ph.D. in political science from the University of Iowa.

**MARK L. WEISS** is retired director of the Behavioral and Cognitive Sciences Division, within the Directorate for Social, Behavioral and Economic Sciences at the National Science Foundation. Earlier at NSF he served as senior science adviser and as deputy assistant director of the Directorate. Dr. Weiss also served as assistant director for Social, Behavioral and Economic Sciences at the Office of Science and Technology Policy in the Executive Office of the President. Formerly, he was professor and chair of the department of anthropology at Wayne State University, where he also served three rotations as an NSF program officer and director of Anthropology. Weiss' research expertise is in the application of genetic approaches to the study of nonhuman primate evolution and behavior. During his career he served on several interagency groups, including as NSF's representative to the White House's Committee on Sciences' Subcommittee on Forensic Science. He was a commissioner on the Department of Justice-National Institute for Science and Technology's National Commission on Forensic Science. He was also a member of the National Science and Technology Council's Subcommittee on Human Factors for Homeland and National Security. Dr. Weiss received a Ph.D. in physical anthropology from the University of California, Berkeley.