

## TPSE Math Meeting, June 20, 2016: Speaker Bios

**Daniel L. Goroff** is Vice President and Program Director at the Alfred P. Sloan Foundation, a private philanthropy that supports breakthroughs in science, technology, and economics. His interests include behavioral economics, government regulation, reproducible research, mathematical knowledge management, as well as the economics of science and higher education. Goroff is Professor Emeritus of Mathematics and Economics at Harvey Mudd College, where he served as Vice President for Academic Affairs and Dean of the Faculty. Before that, he was a faculty member at Harvard University for over twenty years. Goroff has twice worked for the President's Science Advisor in the White House Office of Science and Technology Policy, most recently as Assistant Director for Social, Behavioral, and Economic Sciences.

**Vartan Gregorian** has served as president of Carnegie Corporation of New York since 1997. Previously, Dr. Gregorian served as president of Brown University and as president of The New York Public Library. Earlier, he was the founding dean of the Faculty of Arts and Sciences at the University of Pennsylvania and also served as provost. In 1998, President Clinton awarded Dr. Gregorian the National Humanities Medal, and in 2004, President Bush awarded him the Medal of Freedom, the nation's highest civil award.

Carnegie Corporation of New York, a grant-making institution founded by Andrew Carnegie in 1911, currently supports four key program areas including K-16 education, integration of immigrants and civic engagement, international peace and security, and higher education and research in Africa.

**Rush D. Holt** became chief executive officer of the American Association for the Advancement of Science (AAAS) and executive publisher of the Science family of journals in February 2015. In this role, Holt leads the world's largest multi-disciplinary scientific and engineering membership society. Holt has held positions as a teacher, scientist, administrator, and policymaker. He also served as an arms control expert at the U.S. State Department, where he monitored the nuclear programs of countries such as Iraq, Iran, North Korea, and the former Soviet Union.

Before coming to AAAS, Holt served for 16 years as a member of the U.S. House of Representatives, representing New Jersey's 12th Congressional District. From December 2014 to February 2015, Holt was appointed a Director's Visiting Scholar at the Institute for Advanced Study in Princeton, New Jersey.

Dr. Holt is a Phi Beta Kappa graduate of Carleton College in Northfield, Minnesota, and earned M.A. and Ph.D. degrees in physics from New York University. He is an elected fellow of AAAS and the American Physical Society, and is a member of Sigma Xi, and he holds honorary degrees from Monmouth University, Rider University, Thomas Edison State College, and the University of Toledo.

**LaVerne Srinivasan** is the vice president of the Corporation's National program and the program director for Education. She oversees grantmaking and other activities aimed at engaging parents and communities, improving teaching and leadership for learning, advancing innovative learning environment designs, providing K-12 pathways to college and career success, and fostering integrated approaches to innovation and learning in the field of education.

Ms. Srinivasan has extensive experience with senior-level leadership roles in the areas of urban district change, non-profit education reform, and educational technology. As deputy chancellor of the New

York City Department of Education from 2003 to 2006, she directed and managed the long-term strategic planning of the Human Resources division and the Student Enrollment Planning and Operations division, and launched the Parent and Community Engagement division. She designed and implemented Project Home Run, a strategically redesigned and streamlined system for recruiting, hiring, and placing teachers and school principals that greatly increased the teacher talent available to high-needs schools and has been replicated nationwide.

Ms. Srinivasan began her career at the law firm Shearman and Sterling LLP. In 1993, she joined BMG Entertainment as a Senior Director, Legal and Business Affairs, rising to Senior Vice President, Legal and Business Affairs, and General Counsel Worldwide. She is a graduate of Harvard College and Harvard Law School. She serves on the boards of School Leaders Network, Peace First, and Young Audiences New York, and was a founding member of the Consortium for Policy Research in Education's task force on Strategic Management of Human Capital.

## TPSE Math Leadership

### Board of Governors

**Phillip A. Griffiths (Chair)** is Professor Emeritus of Mathematics at the Institute for Advanced Study, where he served as Professor from 2004-2009 and Director from 1991-2003. Prior to joining the Institute, he was Provost and James B. Duke Professor of Mathematics at Duke University for eight years. From 1972-83 he was a Professor of Mathematics at Harvard University. He has also taught at Princeton University and the University of California, Berkeley. He was a Member in the Institute's School of Mathematics from 1968-1970. Griffiths received his Ph.D. from Princeton University.

He is a member of the National Academy of Sciences and The World Academy of Sciences; a Foreign Associate of the Accademia Nazionale dei Lincei; and an Honorary Fellow of the Indian Academy of Sciences. He was a member of the National Science Board from 1991-1996. From 1922-1999 he served as Chair of the National Academies' Committee on Science, Engineering and Public Policy, where among other projects he oversaw the publication of *Reshaping the Graduate Education of Scientists and Engineers*.

**Eric Friedlander** is the Dean's Professor of Mathematics and the Chair of Mathematics at the University of Southern California, as well as the Henrys S. Noyes Professor of Mathematics (emeritus) at Northwestern University. He is a member of the American Academy of Arts and Sciences. He has conducted research in algebraic geometry, algebraic K-theory, algebraic topology, and representation theory. He is currently the Chair of the Math Section of American Association for the Advancement of Science and the Chair of the US National Committee/Mathematics. He has served as President of the American Mathematical Society, two terms as Chair of the Northwestern Mathematics Department, and as Associate Dean of Natural Sciences at Northwestern. He has organized numerous conferences, engaged in much editorial work, and has mentored to completion 17 PhD students.

**Mark Green** is Distinguished Research Professor at UCLA. He helped to found and then directed the Institute for Pure and Applied Mathematics, an NSF national research institute focused on fostering collaborations between mathematical scientists and researchers in physical science, life science, engineering, medicine and social science. He served as Vice-Chair of the National Academies study, "The Mathematical Sciences in 2025." He is a member of the NRC's Board on Mathematical Sciences and

Applications. He is a Fellow of the American Academy of Arts and Sciences, the American Association for the Advancement of Science and the American Mathematical Society.

**Sylvester James Gates Jr.** is a Distinguished University Professor, University System of Maryland Regents Professor and John S. Toll Professor of Physics at the University of Maryland. Also an affiliate mathematics professor, Gates is known for his pioneering work in supersymmetry and supergravity, areas closely related to string theory. Gates earned two Bachelor of Science degrees in physics and mathematics and his Ph.D. in physics from the Massachusetts Institute of Technology. In 1984, Gates co-authored *Superspace, or One thousand and one lessons in supersymmetry*, the first comprehensive book on supersymmetry, and joined the faculty at Maryland as an associate professor. Four years later, he became the first African American to hold an endowed chair in physics at a major U.S. research University.

The author of more than 200 research papers and a member of the National Academy of Sciences, Gates has been featured in dozens of video documentaries, including five in 2015. For his contribution to science and research, he received the National Medal of Science from President Obama in 2013. Gates serves on the U.S. President's Council of Advisors on Science and Technology, the National Commission on Forensic Science, and the Maryland State Board of Education. He is a strong advocate for science, technology, engineering and mathematics education.

**Tara Holm** is Professor of Mathematics at Cornell University. She is a member of the American Mathematical Society (AMS) Committee on Education, chairing it from 2012 to 2016, and a member of the leadership team of the MAA Common Vision project. She has also served on the Executive Committee of the Association for Women in Mathematics and the Executive Council of the AMS. Her research interests are in geometry and topology, and she has mentored two graduate students to complete PhDs, with three more in the pipeline. Holm also mentors undergraduate and high school students. She is the incoming President/CEO of Pro Mathematica Arte, the corporation which runs mathematics study abroad programs in Budapest, Hungary, for North American students.

Dr. Holm earned an A.B. in Mathematics, *summa cum laude*, from Dartmouth College and a Ph.D. from the Massachusetts Institute of Technology. She is a Fellow of the American Mathematical Society and a Project NExT Fellow of the Mathematical Association of America.

**Karen Saxe** is DeWitt Wallace Professor of Mathematics at Macalester College. She joined the Macalester faculty in 1991, served as Department Chair 2007-2013 and is currently Acting Chair. She has been awarded the Mathematical Association of America North Central Section's Distinguished Teaching Award, and the Macalester College Excellence in Teaching Award. She has been very active with several of the professional societies (AMS, AWM, and MAA); she has served as Second Vice President of the MAA (2014-2016), is PI on the MAA Common Vision project, and is Editor of the MAA's Anneli Lax New Mathematical Library. She currently serves on the AWM Policy and Advocacy Committee, and on the MAA Science Policy Committee and is chair-elect for the latter. Saxe has been a resource in Minnesota on redistricting, consulting with city governments, and served on the Minnesota Citizens' Redistricting Commission, created to draw congressional districts following the 2010 census. She served as the 2013-2014 AMS/AAAS Science and Technology Policy Congressional Fellow.

**Philip Uri Treisman** is professor of mathematics and of public affairs at The University of Texas at Austin. He is the founder and executive director of the University's Charles A. Dana Center, an organized

research unit of the College of Natural Sciences. His research and professional interests span mathematics and science education, education policy, social and developmental psychology, and community service and volunteerism.

He was the E.M. Lang Visiting Professor of Mathematics and Social Change at Swarthmore College and a senior leader of the Professional Development Program—an initiative of the Special Opportunity Program of the University of California Academic Senate, Berkeley Division.

Dr. Treisman received a B.S. in Mathematics, summa cum laude, from the University of California at Los Angeles, after studying horticulture and mathematics in several Los Angeles-area community colleges. He received an interdisciplinary Ph.D. from the University of California at Berkeley, where he studied both mathematics and education. He is an advocate for equity and excellence in education for all students.

### Executive Director

**William E. (Brit) Kirwan** is a recognized authority on critical issues facing higher education. Prior to his 13 years as chancellor of the University System of Maryland (USM), Kirwan served as president of Ohio State University and president of the University of Maryland, College Park.

Currently, Kirwan chairs the National Research Council Board of Higher Education and Workforce and the Knight Commission on Intercollegiate Athletics. He is past board chair of the American Council for Higher Education, the Association of Public and Land Grant Universities, the American Association of Colleges & Universities, and the Business Higher Education Forum.

Among other honors, Kirwan received the TIAA-CREF Theodore M. Hesburgh Award for Leadership Excellence and the Carnegie Corporation Leadership Award, which included a \$500,000 grant to fund USM academic priorities. He was elected to the American Academy of Arts and Sciences in 2002.

Dr. Kirwan received his bachelor's degree in mathematics from the University of Kentucky and his master's and doctoral degrees in mathematics from Rutgers, The State University of New Jersey.