



# NAEP 2018 TECHNOLOGY AND ENGINEERING LITERACY RESULTS

North Carolina Museum of Natural Sciences | April 30, 2019, 2:00 - 4:00pm

## PRESENTER BIOGRAPHIES



 @GovBoard

**Governor Beverly Perdue**, former governor of North Carolina, serves as chair of the National Assessment Governing Board. Gov. Perdue began her career as a public school teacher and then directed geriatric services at a community hospital. She served in the state House of Representatives and five terms in the state Senate before she was elected as the 32nd lieutenant governor of North Carolina. She then became the state's first woman chief executive in 2009, when she was elected the 73rd governor of North Carolina. After she left office in 2013, Gov. Perdue initiated many education efforts, including founding and chairing DigiLEARN, a nonprofit institution designed to accelerate digital learning opportunities for all ages; serving as a resident fellow at the Harvard Institute of Politics and a distinguished visiting fellow at Duke University's Sanford School of Public Policy; and consulting on education issues.



 @EdNCES

**James Lynn Woodworth** was appointed as the commissioner of the National Center of Education Statistics (NCES) in January 2018. Prior to his leadership of NCES, Woodworth was a quantitative research analyst at the Center for Research on Educational Outcomes (CREDO) at Stanford University's Hoover Institution, where he performed extensive research on charter schools, school closures, online education, and other issues. Before joining CREDO, Woodworth performed research, program evaluations, and administered performance-pay programs at the Office for Education Policy as part of his duties as a distinguished doctoral fellow in the Department of Education Reform at the University of Arkansas. Woodworth spent 11 years as a public school teacher in Arkansas. He is also a Marine Corps veteran.



 @NAEP\_NCES

**Peggy Carr** is the associate commissioner for assessment at the National Center for Education Statistics (NCES), Institute of Education Sciences, U.S. Department of Education. Dr. Carr oversees the National Assessment of Educational Progress (NAEP) and a series of large-scale international assessments, such as the Program for International Student Assessment (PISA). Until recently, Dr. Carr also served as acting commissioner for NCES, 2014-2018. NCES is the third-largest of 13 federal statistical agencies. It is responsible for the collection and reporting of education statistics to the nation and reporting on the condition of education to Congress. Before coming to NCES, Dr. Carr served as the chief statistician for the Office for Civil Rights in the U.S. Department of Education, where she engaged in the application of statistics and survey methods to the field of discrimination in American schools and institutions.



 @DocTscigirl

**Tonya Matthews** is the vice chair of the National Assessment Governing Board and a national thought leader in STEM learning, equity and inclusion strategy, and future workforce development. She serves as Wayne State University's associate provost for inclusive workforce development and director of STEM learning innovation. She is the founder of The STEMInista Project, an initiative to engage girls' interest and skills in science and technology careers. She previously served as president and CEO of the Michigan Science Center, vice president of museums at the Cincinnati Museum Center, biomedical engineer at the Food and Drug Administration, project director with the Maryland Science Center, and bioscience curriculum developer at Project Lead the Way. Matthews was named as one of Crain's Business Magazine's 100 Most Influential Women in Michigan. She was appointed to the National Academy of Sciences Board on Science Education and received an honorary doctorate from Central Michigan University for her work in business and engineering.



 @mr\_renne

**Michael Renne** is a technology educator at Mendenhall Middle School in Guilford County Schools. Renne has taught in a variety of educational settings, from private and residential schools to the university level and traditional 6-12 schools. Renne holds certifications from Microsoft, Apple, Google, Minecraft: Education, and the Raspberry Pi Foundation, and is passionate about infusing technology into teaching and learning. His interests are in maker-based education, physical computing, game-based learning, and school reform.



 @reedycreekms

**Luke Wieszczyk** is a mechatronics teacher for 6th-8th grade students at Reedy Creek Magnet Middle School's Center for the Digital Sciences. The mechatronics class focuses on the different realms of engineering, technology, and coding on an advanced level. Wieszczyk's eight-year teaching career also includes teaching math, science, and mechatronics for 4th-8th graders in the Philadelphia School District and Wake County School District. He is passionate about exposing his students to new skills and careers and stays on top of the ever-changing technology and engineering industry through on-going research and curriculum development.

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 @coencat

**Kory Bennett** is the director of robotics outreach and a lecturer at North Carolina Agricultural and Technical State University, a historically black institution in Greensboro. Bennett coordinates university's FIRST (For Inspiration and Recognition of Science and Technology), which hosts local, regional and statewide competitions for robotics teams in grades 4-8 and grades 7-12. Bennett has a strong devotion to the development, fostering, and stewardship of activities designed to increase the knowledge of and enthusiasm for STEM disciplines within grades K-20. He is an engineering professional with a strong background in electrical/computer engineering and product development. With his 10+ years in the industry, Bennett has been fortunate to gain extensive and relevant experience in component design and simulation, system design and simulation, and FDA analysis in the consumer electronics, wireless, and medical device industries.

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 @NASA

**Pamela Millar** is the program director for the Earth Science Technology Office (ESTO) within the Earth Science Division at NASA. ESTO funds and develops a broad range of technologies for the scientific observation and measurement of Earth. She formerly served as the program manager of the In-Space Validation of Earth Science Technologies, Sustainable Land Imaging Technology and Airborne Instrument Technology Transition programs within ESTO. Prior to her positions at ESTO, Millar was head of the Laser Remote Sensing Laboratory at NASA Goddard Space Flight Center (GSFC) for 10 years. She also led the development of the Stellar Reference System on NASA's Ice Cloud and land Elevation Satellite. Early in her career at NASA, Millar led aircraft experiments and several laboratory investigations in precision laser ranging and remote sensing. She was co-chair of the 2009 Women in Astronomy and Space Science—Meeting the Demands of an Increasingly Diverse Workforce—Conference, co-editor of the Goddard Women in STEM booklet, and served as a member of the diversity council in the Science and Exploration Division at GSFC. She received her Ph.D. from Rice University's Quantum Electronics group; a B.S. in Electrical Engineering from Rutgers University and her Master's Thesis in Electrical Engineering from Rice University.

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 @redhat

**Katrinka McCallum** is the vice president of products and technologies operations at Red Hat, Inc., an enterprise software company with an open source development model. Katrinka's team is chartered with providing the operational backbone for all of Red Hat's product and technology teams to drive synergies across teams to enhance the development, commercialization, and lifecycle management of Red Hat's offerings.



 @GovBoard

**Linda Rosen** has served as a member of the National Assessment Governing Board since 2015. For seven years, Rosen was the chief executive officer of Change the Equation, an organization whose corporate members work to ensure K-12 students are STEM-literate by collaborating with schools, communities, and states to adopt and implement relevant policies and programs. Rosen previously served as president of Education and Management Innovations, Inc., and as senior vice president of the National Alliance of Business, with a focus on math and science education policy. Rosen was also a special adviser to U.S. Secretary of Education Richard Riley and executive director of the National Council of Teachers of Mathematics.



 @jsiddiqi7

**Javaid Siddiqi** is the president and CEO at The Hunt Institute, a nonprofit leader in the movement to transform public education. Formerly serving as the Virginia secretary of education, Siddiqi has spent more than 15 years in education and education reform and policy. Most recently, he served as the director of the Hunt-Kean Leadership Fellows, which partners with senior-level political leaders who have the knowledge, skill, and will to be effective, reform-minded education policymakers at the state level. Siddiqi began his professional career as a high school teacher, assistant principal, and as a principal in Chesterfield, Va., where he led the implementation of Expeditionary Learning, a nationally recognized school reform model. As secretary of education in Virginia Gov. Bob McDonnell's Cabinet, Siddiqi assisted in the development and implementation of the commonwealth's education policy and provided guidance to 16 public universities, the Virginia Community College System, five higher education and research centers, the state department of education, and the state-supported museums. Prior to his appointment, he served as Virginia's deputy secretary of education, where he focused his efforts on teacher quality and improving educational outcomes for all students.