FIRST Chesapeake is pleased to announce the 2023 *Reaching for the Stars*: Outstanding Women in STEM Award Sponsored by Leidos will be presented to:

Dr. Julie Rosen, Ph.D.

CHIEF SCIENTIST, MATHEMATICIAN

Dr. Rosen is a recently retired Chief Scientist at Leidos, Inc, where she was a Leidos technical fellow and served as Chair of Leidos' Technical Fellows Community, where she drove innovative technical creativity and enterprise-wide collaboration of the company's most accomplished and experienced scientists, mathematicians and engineers. She also served as Leidos Health's Chief Scientist, where she was responsible for the development of emerging data science techniques, and the application of proven data science methods, that leverage information captured in structured and free text healthcare records.

For more than 35 years as a scientist with Leidos, Julie worked in both the national security and healthcare arenas. She served as science advisor and analyst for Leidos Health's healthcare data analytics capabilities including: probabilistic reasoning under uncertainty modeling efforts for federal healthcare agencies; and the statistical and graph-modeling analysis of structured and semi-structured data. Most recently, Julie led the technical approach for proving the benefit of an academic collaborator's machine learning model to forecast suicide risk among military members and veterans. She also advised corporate technical leadership on basic and applied research into intelligence automation, and AI/ML modeling and methods. Such advice included Julie's career-long championing of promising junior researchers, particularly women who are strong technical performers in data analytics and emerging AI/ML models, and who recognize the need for innovative science and technology to improve the human condition.

Julie moderated conferences and workshops and has served on several Department of Defense (DoD) planning boards on mission and resource planning for U.S. DoD decision makers. She served as a panelist on the Veterans Agency's panel to discuss the benefits and caveats of leveraging health information in AI/ML systems to improve early identification of at-risk patient populations. She authored peer-reviewed, published papers on the mathematics and practical uses of mathematics underlying decision support analysis methods.

Both as a performing mathematician-researcher and technical leader among peers, Julie continues her career-long service –as role model/speaker— to middle school girls, where she demonstrates the fun that is possible when girls and women participate in science, technology, engineering, and math experiments.

Julie holds a bachelor's degree in Chemistry from the University of Maryland, Baltimore County, and master's and doctoral degrees in Mathematics, with a specialty in probability theory, from the University of Maryland at College Park.