

Prof. Vaseashta received his Ph.D. from the Virginia Polytechnic Institute and State University, Blacksburg, VA in 1990. He was awarded a Kobe post-doctoral fellowship at Virginia Tech and served as an adjunct Professor. He then served as a Professor at the University of West Indies, Kingston, and after that as a tenured and full professor at Marshall University, Huntington, West Virginia. He served as the Director of Research at the Institute for Advanced Sciences Convergence and International Clean Water Institute for Norwich University Applied Research Institutes, Vice-Provost (Rector) for Research, at the Biomedical Research Center in South Carolina, and Executive Director and Chair of Institutional Review Board at a State University in New Jersey. Currently, he is the Chief researcher and Executive Director for research with the International Clean Water Institute in Virginia, USA. He also serves in several honorary positions, such as a Professor at the Transylvania University of Brasov; Chaired Professor of



Nanotechnology at the Ghitu Institute of Electrical Engineering and Nanotechnologies; Academician at the Euro-Mediterranean Academy of Arts and Sciences, member of the International Center for Transdisciplinary Research (CIRET), and Senior Strategic Research Advisor for several organizations. His honorary positions included a Visiting Professor at the Riga Technical University, Latvia, 3 Nano-SAE Research Centre, University of Bucharest, Romania, and a Visiting Scientist at the Weizmann Institute of Science, Israel. He served the U.S. Department of State in two rotations, as a strategic S&T advisor in the Bureau of International Security and Nonproliferation, Office of Weapons of Mass Destruction and Terrorism, and U.S. diplomat.

He is a scholar, visionary, strategist, and dedicated futurist providing strategic leadership to promote and advance research initiatives and priorities using data-driven decisions. Inspired by nature and guided by societal necessities, he strives for technological innovations to address the global challenges of the 21st century. His research interests include critical infrastructure safety, security, and environmental sustainability - all using the nexus of advanced and exponential technological solution platforms. His research interests span water, nanotechnology, foresight, environmental/ecological science, and critical infrastructure in support of safety, security, and sustainability. He is the author/editor of 14 books and has published over 300 articles in scientific journals, book chapters, and conferences. He serves as chief editor of Sustainable Materials and Manufacturing, and on the editorial boards of several international journals. He is an Honorary member of the Academy of Sciences of Moldova, fellow of the American Institute of Physics, Institute of Nanotechnology, NANOSMAT, Life Member of IEEE – Institution of Electrical and Electronic Engineers, and an active member of various professional organizations. He is the recipient of many honors, awards, and distinguished recognitions which include an award from the Moldavian Chemical Society for Ecological Chemistry, an Eminent Fellow from the Scholars Academic and Scientific Society, a lifelong contribution from the Balkan Environmental Association, and a Distinguished Artist and Scholar Award.