Dr. Abdul Khaliq received a Ph.D. and an M.S. from Brunel University in London and an M.S. from Quaid i Azam University. He joined the MTSU faculty in 2005.

Dr. Khaliq’s area of expertise is numerical analysis and scientific computing, with specialization in the “Development of Stable and Efficient Numerical Methods for Large Scale Systems of Partial Differential Equations (PDEs).” His primary research interest lies at the interface of applied mathematics and computational science, which includes new and robust algorithms using partial differential equations with applications to complex financial and physical systems. In addition, his current research interest includes numerical solutions of Stochastic Partial Differential Equations (SPDEs), scalable algorithms in the numerical solutions of stiff stochastic differential equations (SDEs), computational modeling and simulation of complex stochastic systems with applications in chemical systems, and analyses of uncertainty and error that arise in the modeling and simulation of complex physical systems.

Dr. Khaliq has also established research collaboration with scientists at Oak Ridge National Laboratory (ORNL) in the Mathematics and Earth Science divisions. He published a joint research paper with one of the ORNL scientists in Communications in Computational Physics in 2015. He has presented research papers at national and international conferences as a keynote speaker, had a large number of published research articles, and had his research frequently cited in books, journals, and theses. Currently, he serves on the editorial boards of four international journals and is editor-in-chief of the International Journal of Computer Mathematics, a leading high-quality refereed journal in computational mathematics. Dr. Khaliq was awarded the MTSU Distinguished Research Award in 2007 and the Western Illinois University Outstanding Faculty Excellence Research Award in 2001.
MTSU faculty members gather for a group photo with university leaders Thursday, Aug. 18, after they were recognized by the MTSU Foundation for their service at the Fall Faculty Meeting inside Tucker Theatre. Eleven of the 20 recipients and their 2016 honors include, from front row from left, chemistry professor Anatoliy Volkov, Outstanding Achievement in Instructional Technology Award; mathematical sciences professor Abdul Khaliq, Distinguished Research Award; industrial/organizational psychology professor Michael Hein, Career Achievement Award; recording industry professor Charlie Dahan, Outstanding Achievement in Instructional Technology Award; elementary and special education professor Terri Tharp, Outstanding Public Service Award; and political science professor Lisa Langenbach, Outstanding Teacher Award. Standing in the back row are, from left, health and human performance professor Joey Gray, Outstanding Teacher Award; aerospace professor Mark Callendar, Outstanding Teacher Award; MTSU Foundation President Tom Provow; MTSU President Sidney A. McPhee; interim Provost Mark Byrnes; English professor Gaylord Brewer, Creative Activity Award; English professor Jennifer W. Kates, Outstanding Teaching in General Education Award; and electronic media professor Robert Gordon, Special Project Award. The nine recipients who couldn’t attend the Aug. 18 event are pictured individually below. You can learn about all the 2016 honorees by clicking on the photo and reading the event program. (MTSU photo by J. Intintoli)