

The Next Records Challenge: Quantum Information Science and Technology

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Quantum Information Science and Technology (QIST) is the merger of quantum physics and information theory. Quantum physics describes nature at an atomic and subatomic level. Information theory is the study of quantification, storage, and communication of information. The federal government, academia, and industry have been partnering on new technologies in QIST. Development is still in the early stages and quantum computers are still rudimentary. The presenters, who are with NARA, have been working on a white paper on QIST, with the goal of helping federal records managers better understand QIST and to consider the potential records management implications at their own agencies. Emerging quantum technologies could have the biggest impact in cryptography.

About the authors:

Sharmila Bhatia joined the National Archives and Records Administration (NARA) in 2001. She is a Program Analyst in the Information Security Oversight Office. She has experience in researching and writing about emerging technologies, electronic formats, archives and records management. She has worked with electronic records for 20 years as a processing and accessioning archivist and has experience with a variety of formats and in multi-stages of the records lifecycle.

Before coming to NARA, Sharmila was a reference archivist at the South Carolina Department of Archives & History and a reference librarian at the Richland County Public Library (SC). She has a Master of Arts and a Master of Library and Information Science from the University of South Carolina.

Kate Kim joined the National Archives and Records Administration (NARA) in 2011. She is an Archives Specialist in the Records Management Operation, Office of the Chief Records Officer. Previously she worked in the Electronic Records division at NARA as a processing and accessioning archivist.

Before coming to NARA, Kate was a reference librarian at the Oakland Public Library. She has a Master of Library and Information Science degree from San Jose State University. Kate is also a Certified Archivist and a SAA Digital Archivist Specialist.

Markus Most has spent over 20 years in records and information management positions. He has worked both in and out of the Federal government, including the Executive Office of the President, Environmental Protection Agency, and the Federal Bureau of Investigation before joining the National Archives in 2007. Markus has held various positions at NARA, but in his current position, he works with Federal agencies to tackle their electronic records challenges and monitors emerging technology for its impact on records and information management. Markus

has a Master of Library and Information Science from the University of Maryland and is also a Certified Records Manager.