BIOGRAPHY

UNITED STATES SPACE FORCE

ROBERTA M. EWART

Roberta M Ewart, is the Chief Technology Officer for the Space Systems Command (SSC) Los Angeles Space Force Base and previously the Chief Scientist for the Space and Missile Systems Center, (SMC) Los Angeles Air Force Base (LAAFB)

Roberta is the principal scientific authority and researcher in the field of space systems. Duties include: Technical oversight and continuity for SSC integrated technical reviews and assessments of programs and research, development and demonstration of technologies on-board spacecraft. Advances the knowledge of emerging space concepts and technologies that decrease the cost and increase Space Force capabilities through advanced systems development and demonstration. Responsible for planning, conducting, evaluating, and coordinating studies and developmental demonstrations in space systems with SSC and other DoD development centers and agencies such as DARPA, MDA, and NASA. Executes industry research and development reviews and sponsors small and non-traditional companies into the SSC portfolio.

Serves as a consultant to the USSF/CTIO and other members of USSF for technical judgments and evaluations.

Roberta joined SSC in 2000 and has held several key positions including Chief Engineer, Development Plans and Chief Engineer and Chief Architect for $4B development, test, and fielding of 20 Presidential priority special access required special access programs in the Space Superiority Systems Wing.

EDUCATION

BS in Physics, United States Air Force Academy, Colorado Springs, CO
BA in Theoretical Physics and Philosophy of Science, Oxford University, UK
MA in Theoretical Physics and Philosophy of Science, Oxford University, UK
MS in Electrical Eng (Optical-electronics/Satellite Design), University of Colorado, CO
(Thesis: Uni-directional Ring Laser Gyroscope Using Photorefractive Gain)
DE in Electrical Eng (Solid State Lasers), Stanford University, California
(Dissertation: Amplitude Noise Properties of Solid State Lasers and Amplifiers)

CAREER CHRONOLOGY

1. 2003 - 2004 Chief, Systems Engineering Division, Transformation and Development Directorate, SMC
2. 2004 – 2006 Chief, Engineering, Architecting and Integration Division, Space Superiority Materiel Wing, SMC
3. 2006 - 2022 Chief Scientist, Space and Missile Systems Center (SMC), LAAFB
4. 2014 – 2019 Technical Director, Science and Technology Division, Advanced Development Directorate, SMC

5. 2019 - 2020 Chief, Science and Technology Branch, Portfolio Architect, SMC, LAAFB
6. 2020 - 2022 Chief, Innovative Development Division, Portfolio Architect, SMC, LAAFB
7. 2022 - 2023 Chief Scientist, Space Systems Command, USSF, LAAFB
8. 2023 - Pres Chief Technology Officer, Space Systems Integration Office, SSC, LAAFB

CERTIFICATIONS

USAF Master Space Badge (Manned and Unmanned Space Operations)

Highly Qualified (HQ) Mission Controller for GPS BLK II Launch and Early Orbit, DMSP, DSP

DAWIA Acquisition LVL III, Systems Planning, Research, Development, Engineering, 2004

DAWIA Acquisition LVL III, Program Management, 2006

DAWIA Acquisition LVL III, Science and Technology Management, 2013

Chief Investigator for first AFMC Satellite Accident (STEP-4 Spacecraft)

AFIT Chief Engineers Certification Course

AWARDS AND HONORS

Distinguished Graduate United States Air Force Academy

USAF Distinguished Graduate Space Operations School

First USAF Officer to earn a George C. Marshall Scholarship (Oxford University, UK)

Regional Finalist (2X) for the Whitehouse Fellowships

AFROTC Leo Codd Teaching Award, Northeast Region, (top academic instructor in 27 AFROTC detachments)

USAF Air Command and Staff College Academic Excellence (Top 10%)

USAF Air War College Academic Excellence (Top 10 %)

AFSPC John J. Welch Award Winner (Science & Technology Management Award)

2006 - Meritorious Service Medal with 2 OLC

2006 - AFA Bernard Schriever Chapter 147 Leadership Excellence Award (USECAF)

2006 - Military Operations Research Society – David Rist Prize Runner-Up for Outstanding Contributions to Military Decision Analysis (2nd Highest Military Operations Research Honor)

2008 - AFSPC Science, Technology, & Engineering Role Model (STEM)

2009 - AFA Bernard Schriever Chapter 147 Senior Civilian Manager of the Year (AFSPC)

2010 - AFSPC Lester Lyles Development Planning Engineer of the Year

2011 - 2016 Superior Performance Awards (Defense Civilian Intelligence Personnel System)

2016 – Defense Civilian Intelligence Personnel System Notable Achievement Award

2017 – Associate Fellow, American Institute of Aeronautics and Astronautics (AIAA)

2020 - AFA Dr. Alfred Rockefeller Award for Outstanding Civ SMC (Top Civ at SMC 2020)

PROFESSIONAL ASSOCIATIONS

Board Member, National Academy of Sciences, Space Technology Industry, Govt, University Roundtable

Member, Los Alamos National Laboratory Mission Committee, Department of Energy