

GSAW 2013 Tutorial A:

Introduction to Ground Systems

Length: Half day

Overview:

Ground Systems Overview

- Increased awareness and understanding of:
 - » Major functional areas within Ground Segments
 - » Interrelationship between major functions
 - » Modes of operations

Ground Systems Transmit and Receive Functions

- Become familiar with the basic functions for transmit and receive
- Gain exposure to common transmit and receive elements and subsystems

Managing and Using Commercial Off the Shelf Products

- Case studies on past problems when using COTS components
- Case study on how you can successfully use COTS in development

Doing More with Less

- Trading off desirements to save on hardware/software costs
- Relieving manual tasks with automation

Instructors: James Anderson, Donald Town, The Aerospace Corporation

Biographies:

J. V. Anderson:

B.S. in Information Technology, University of Phoenix

Over 30 years experience in all aspects of ground system acquisition and system engineering with emphasis in modeling and simulation; test planning, test definition and execution; requirements definition and analysis, system deployment, and operations.

D. E. Town:

Ph.D. in Applied Mathematics, Brown University

M.S. in Mathematics, The Ohio State University

B. A. in Mathematics/Physics, DePauw University

Over 25 years at the Aerospace Corporation with engineering experience in satellite ground system acquisition support, Independent Readiness Reviews, ground system engineering studies, and ground system test and integration support. Acquisition activities supported include software development and test and the development of requirements, operational concepts, and ground architectures. Ground system and software support for Aerospace Concept Design Center (CDC) Space Segment, System Architecture and Ground Systems Teams.

What Participants Should Expect to Learn:

Exposure to tutorial material on topics of high current interest in satellite operations ground systems. Increased awareness of ground station transmit and receive functions, COTS lesson learned, and current/future trends.

Who Should Attend:

Personnel responsible for the staffing, management, acquisition, development, and/or maintenance of ground systems. No specific ground system expertise is required. Material is DOD-centric.