GSAW 2016 Tutorial D:

An Overview of Ground Systems for Satellite Operations

Length: Half day

Overview:

Tutorial Detailed Objectives
An Overview of Ground Systems for Satellite Operations and Updating Legacy Ground Systems

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 challenges when using COTS components
- Case study on how you can successfully use COTS in development

Evolving Legacy Ground
- Updating legacy systems to meet new requirements / mission

Instructor: James Anderson, The Aerospace Corporation

Biography:

J. V. Anderson:
B. S. in Information Technology
Over 35 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.

Description of Intended Students and Prerequisites:

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.

What can Attendees 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.