

## **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.