

GSAW 2011 Tutorial D:

Establishing a Foundation for Harmonization with an Introduction to Ground Systems

Length: Half day

Overview:

Tutorial Detailed Objectives

Establishing a Foundation for Harmonization

- Basic Functions and Modes of Ground Stations
- Elements of Ground System Acquisition and Sustainment
- Enablers of Ground System Harmonization
- A Network Case Study

Class examples and exercises will be drawn primarily from issues that confront designers, builders and users of satellite ground systems.

Instructors: Jim Anderson, Jim Shneer, Donald Town, The Aerospace Corporation

Biographies:

The instructor team includes senior members of the Aerospace Corporation technical staff. The average years of industry experience for the team is 30.

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.

J. A. Shneer:

B.S. in Mathematics, George Washington University

Over 41 years of experience in program management and systems engineering. Responsible for requirements definition, source selection, site selection, system and software design, development, test, deployment, operations and retirement for over a dozen major satellite ground systems and public safety computer-assisted communications systems.

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:

The session contains both introductory level material and material designed to articulate how efforts at harmonization can provide a better ground system architectural solution. The Session is especially geared towards those students who are new to satellite ground systems or those looking for a refresher.

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.