

## **GSAW2009 Tutorial C:**

Visualizing User Requirements

**Length:** Half Day

### **Overview:**

Tutorial Detailed Objectives

- A look at what goes wrong in development
  - Over-defined, under-defined and ambiguous requirements
  - Evolving Requirements
  - The changing user
  - Example Requirements
- Various ways to decompose and analyze User Requirements
  - Ground System Life Cycle
  - Modeling and Simulation
  - Use Cases
  - Site Selection
- Tutorial Exercises
  - Designing potential solutions
  - Refining the requirement set
  - Thinking out of the box

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

**Instructors:** James Anderson, James Shneer, and Donald Town, The Aerospace Corporation

### **Biography:**

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 28 years experience in all aspects of ground system acquisition with emphasis in interface control; 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 40 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. Town:

Ph.D. in Applied Mathematics, Brown University

M.S. in Mathematics, The Ohio State University

B. A. in Mathematics/Physics, DePauw University

Over 24 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.

**Who Should Attend:**

Personnel responsible for the staffing, management, acquisition, development, and/or maintenance of ground systems. Personnel who deal with interpreting user requirements. Attendees would benefit from having taken the “Ground Systems for Satellite Operations Primer and Acquisition Considerations” tutorial presented at GSAW 2006 and 2007, and “Ground System Special Topics” presented at GSAW 2008, but it is not necessary.