



University of Southern California  
Center for Software Engineering

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# **Breakout Session Objectives and Overview**

Architecture Evaluation: Criteria, Methods, Tools

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# Session Objectives

- **Identify most significant criteria for satellite ground system evaluation**
- **Identify most significant method and tool needs**
- **Identify promising approaches to meet significant needs**
  - **-General approaches**
  - **-Specific recommended actions and agents**



# Session Agenda

**1:30-2:00 Breakout Session Presentations (approximate titles)**

**1:30 Gamble, Interoperability Conflict Analysis**

**1:40 Hager, Object-Oriented Ground System Management**

**1:50 Richardson, Static and Dynamic Integrity Analysis Tools**

**2:00-2:40 All, Identify Most Significant Criteria**

**2:30-3:15 All, Explore Needs and Approaches**

**3:15-3:45 Break**

**3:45-5:15 All, Identify Most Promising Approaches**



# Candidate Architecture Evaluation Criteria

- For development, for life cycle; for product line; for low risk
- For software, for computer resources, for system (ground, space)
  - Cost
  - Schedule
  - Performance
  - Adaptability
  - Interoperability
  - Usability
  - Dependability
    - Reliability
    - Availability
    - Security
    - Safety
    - Accuracy