Summary of GSAW 2001

Plenary Sessions
Strong messages

- **Change (during system development) happens**
  - get over it!
- **Change is happening in space**
  - don’t get run over by it!
- **Product line approach is working**
  - get behind it!
- **Web is changing the space business**
  - get used to it!
- **Vulnerability and security are big problems**
  - get on it!
- **Java is great**
  - get with it ..... dude!
Success stories

- Product line Hall of Fame
- Java and associated technologies
Progress being made

- Quantifying the effect (cost and benefits) of using COTS
  - Need to understand business models
  - Empirical methods
- Developing standards that improve interoperability
- Exploring “commercialization”
New themes

- **Security and vulnerability**
  - Down-side of integration and interoperability and systems of systems
  - A return to “autonomy” (stovepipes)
  - Use of internet, and consumer-grade technologies
  - Security as a product line inhibitor

- **People Challenges**
  - How to re-instill creativity?
  - How to make ground/space systems “cool”? 
  - How to hire/retain talented people?
Connections to explore?

- Do the changes in the space business offer an opportunity for change?
- Architecture and CMM-i
- The role of Open Source
Fading issues

- Architectural description methods
- Architectural analysis
- Architectural mismatches as the source of system breakage
New terms & quotable quotes

- Fuzifying
- Just in time everything
- Nobody ever thinks about security
- If you want it bad, you’ll get it bad. If you want it REALLY bad, you’ll get it REALLY bad.
- Government pays us to re-invent the wheel
- There are no technical solutions to political problems + a lot of our challenges are political
- Everyone is special - get over it!