Group A Priorities

- 1. Basic/applied research needs that should be addressed by AMTAS
- 2. Educational/training courses that should be developed by AMTAS
- 3. Long-term growth of AMTAS (new funding/members)

1. Research needs

- Manufacturing automation—repeatability, nature of defects, tolerance limits
 - o part thickness
 - o complex material/assemblies (fasteners/metals/composites)
 - o drilling
 - o tooling
- Baseline knowledge—company-specific manufacturing differences
 - o communication/training
- Effects of defects (manufacturing) and damage
 - o visual damage limits = f (impact event: energy, impactor geometry, other variables)
 - o quantitative NDI
 - o assigning a metric to damage/defect
 - o strong links to maintenance
- Composite material cure—heat transfer, tooling, design detail
 - o manufacturing
 - o maintenance/repair

2. Training

- Simple but practical manufacturing concepts (materials, processes, metal/composite differences)
- Maintenance
- Damage tolerance (manufacturing defects, ADL, critical damage)
- 4-year degrees that include 20+ years experience

3. AMTAS growth

- What does it mean?
 - actual funding
 - o technical oversight/advice
 - training support
- Industry partners related to existing AMTAS partner products
- Seek strategic partners globally based on need
- What strategy should we take for candidate partners outside aero?
- DoD, NASA, foreign government—when it helps our mission
- Other aero products in addition to transport (small airplanes, commuters, rotorcraft, space)