

1. Environmental Testing

1. Accelerated methods for characterization
2. Degradation and aging testing
3. Predictive modeling capabilities
4. Galvanic corrosion

2. Repair of Composites

1. M&P
2. Leverage analysis tools
3. Standardization

3. Analysis method – refinement

1. Disbond propagation
2. EMF
3. Bolted Joints
4. Fundamental physical mechanisms to support accelerated test methods
 - Moisture Uptake
 - Material degradation

4. Bio-based composites
 1. Fiber, material form, processing
 2. Polymers, additives
5. Recycling
 1. Interiors
 2. Fiber form M&P
6. Textile materials
 1. Optimization and modeling
 2. Manufacturing
7. Inexpensive Carbon Fiber
 1. New precursor materials derived from non-petroleum sources
8. Integrated functionality into carbon fiber
9. Conductive sealant materials