| AMTAS Spring 2007 Workshop Session - Future Research Areas | | | | | | |
|---|---|---|---|---|---|---|
| **Number** | **Brainstorm Future Research/Education Areas** | **R&D/E** | **Near-term (1-3) / Long-term (4-10)** | **No. Votes** | **Top Priority (1-5)** | **Contact** |
| 1 | Alternative fiber forms + architectures - analytical methods and predictions + educate on non-laminated composites - also data mining of ACT and past program | R+E | Near | 9 | 1 | Michael Graves |
| 2 | Manufacturing Quality Assessment - NDE - statistic process control - certification of bonded structures (defects/ detection/ disposition) | R | Near | 6 | 3 | Joost List |
| 3 | Fracture mechanics based certification of composite structures | R | Near | 4 | | Eugene Dan Jumbo |
| 4 | Drilling and machining practices for composites | R+E | Near | 3 | | Lindsay Erickson |
| 5 | Multifunctional Composites (thermal, electrical, acoustic, conduct etc.) | R | Long | 4 | | Brian Flinn |
| 6 | Economic Optimization as it relates to tradestudies | R | Near | 5 | | Martin Gibbins |
| 7 | Specialized Test Methods for Composites | R | Near | 5 | 4 | Paolo Feraboli |
| 8 | Standardized Advanced FE Modeling Methods | R | Long | 4 | | Paolo Feraboli |
| 9 | Chemical and physical understanding of adhesive secondary bonding processes | R | Long | 8 | 2 | Steve Christiansen |
| 10 | EME/ Lightning - current management | R | Near | 5 | 5 | Diane Rawlings |
| 11 | Aging Aircraft of Composites - bonded, environmental, accidental damage | R | Near | 4 | | Ian Won |
| 12 | Physics based modeling of accelerated aging, solvent sensitivity of composite materials, less testing | R+E | Long | 3 | | Steve Christiansen |
| 13 | Probabilistic design of bolted joints (reliability based) | R | Near | 1 | | Michael Graves |
| 14 | How to use Nanocomposites | R | Long | 1 | | Frank Ko |
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