DEFENSE INNOVATION
TECHNOLOGY ACCELERATION CHALLENGES
2016 NOV. 29 - DEC. 1 • AUSTIN, TX

Co-Located with
DEFENSE ENERGY INNOVATION SUMMIT & SHOWCASE | SBIR/STTR INNOVATION SUMMIT

TECHNOLOGY: **Superb enhancement of CFRP composite fracture energy by adding SMCF to resin matrix**

AFFILIATION: UNSW Australia & Monash University Australia, Sydney, NSW, Australia

TECHNOLOGY SUMMARY

Track: Advanced Materials
Area: Structural & Multifunctional Materials
Tech Readiness: TRL 7

Tech Brief: A novel epoxy matrix system was fabricated by adding as received recycled short milled carbon fibres to the matrix resin. CFRP laminates fabricated using these modified resin showed significant increase in fracture energy of the laminates - so making the CFRP laminates attractive in structural and aerospace applications.

SHOWCASE SUMMARY

Org Type: Academic/Gov Lab
Website: https://www.unsw.edu.au/
Booth Number: T120

FIGURES OF MERIT

Value Proposition: Earlier, Prof Bandyopadhyay was "Scientist of the Year", at Australian Defence Science & Technology MRL Melbourne, for his novel in-situ SEM deformation and fracture of polymers/composites. During 1997-98 Bandyopadhyay was visiting professor at USA U-Delaware Center-for-Composite Materials - his research earned host Prof Wool US$10-Million from DoE etc.