

## ***Interactive comment on “Effects of moisture absorption on damage progression and strength of unidirectional and cross-ply fiberglass-epoxy composites” by Jake D. Nunemaker et al.***

**Anonymous Referee #2**

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This is a well written paper with everything to recommend it for publication.

The use of AE monitoring for the mechanical tests adds good information to help characterise the effect of hygrothermal aging on damage mechanisms. As the authors point out in their Introduction (1.3), although considerable previous research exists there is more to be explored and understood here.

Page 2, line 24-25: “. . . AE response associated from (with?) damage behaviour from effects of moisture. . .”

The specimens are testing in static loading. For wind energy blade materials it is dynamic loading effects (fatigue properties) that are most often in focus and it would

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have been nice to have some discussion and reference to this.

The AE setup and analysis is well chosen and described here.

The coupon failures for different lay ups and dry/aged condition is very interesting and nicely described. However with the text here broken up by large (and valuable!) images it is not easy to quickly form an overview of the relevant differences. Perhaps a small table can help?

Laminate 1,2,3,4 Dry/Aged Crack density/uniformity “Brooming” failure/“neat” failure and so on...

Again the AE output seems to be suitable for a small table to collate the analysis text. . .

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