

Abstract Submitted  
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**Modeling of Self-Healing in Materials Reinforced with Nanoporous Fibers.**<sup>1</sup> VLADIMIR PRIVMAN, Clarkson University — We report on our group's progress towards continuum rate equation modeling, as well as numerical simulations, of self-healing of fatigue in composites reinforced with glue carrying nanoporous fibers. We conclude that with the proper choice of the material parameters, effects of fatigue can be partially overcome: fracture and degradation of mechanical properties can be delayed.

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