

Visitor Research Report

Visitor Name: Professor Pedro Camanho
University of Porto, Portugal

Area of Research: Structural Mechanics

Period of Visit: July 28, 2008 through August 8, 2008

Goal:

Development of advanced computational models to predict the inelastic response of advanced composites.

Strategy:

Integrated approach, including analytical/numerical modeling and experimental analyses.

Accomplishments:

New methodology to identify the cohesive law for fiber propagation in the longitudinal direction.

Future Work:

Validation of the models by comparison its predictions with data obtained at the sub-component level.

Pending Publications:

R-Curve Toughening in the Longitudinal Fracture of Composites and Associated Cohesive Law

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Seminar Presented:

N/A