CENTER FOR COMPOSITE MATERIALS
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UD-CCM Sponsored Seminar:

Investigation of Composites, Pre-pregs, Epoxy Resins and Reinforced CFRP with High Force DMA

February 22, 2016 | 9:30am
CCM Conference Room 106

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Dynamic Thermal mechanical properties of composites are gaining more and more interest in industrial research and scientific development all over the word and primarily in the United States.

Conventional DMA systems are restricted in force (< 40 N) and not able to perform tests in tensile mode. The specimen's stiffness is simply too high and reasonable deformations cannot be obtained. This problem disappears with high force DMA systems operating with static and dynamic forces up to 8000 N. Due to the high load capability dynamic mechanical investigations in the non-linear deformation range become possible.

This DMA system can be equipped with different temperature chambers, operating from -150°C up to 500°C and/or from ambient up to 1500°C and open new application ranges in further material classes for high force and high temperature Dynamic mechanical analyses normally, not accessible by conventional technology. The technical design of this DMA will be presented as well as composite applications.