Research Team Publishes Initial Results In Development of Structural Nanoskin

CINCINNATI, OH, March 21, 2007—A research team led by Vesselin N. Shanov, Ph.D., and Mark J. Schulz, Ph.D., has published initial results of their work on developing a structural nanoskin product with exciting and far-reaching potential application in numerous fields, including aircraft structures and maintenance, electronics, lubrication/nanobearings—with additional testing being pursued in the areas of power generation, structural health monitoring, and nanomedicine.

The report notes comparisons between Carbon Nanotubes and Carbon Nanosphere Chains (CNSC) now being produced by Clean Technology International Corp. The CNSC material (which was noted to be *catalyst free, lightweight, and hydrophobic*) was mixed with an epoxy polymer using a shear mixer and ultrasonicator. The researchers noted that CNSC have a unique spherical morphology, which is positive for electrical and thermal conductivity. Evaluation of the nanoskin is still underway, but the material reveals electrical conductivity on one side, and is electrically insulating on the other side.

As to the structural nanoskin produced, the researchers note "structural and electrical characteristics of CNSC make them promising for developing unique and revolutionary smart materials."

At the end of their report, the researchers note *Pioneering Applications of Structural Nanoskin*. For more detail, you may download the entire report.

Research quantities of CNSC are available for purchase by academic, government and corporate entities.

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