

NEWS—MAR. 2, 2009

## Georgia Tech orders carbon nanotube fabrication tool

**ATLANTA, Ga.—**The Georgia Institute of Technology has ordered a nano-material growth tool from Surrey NanoSystems which will be delivered during the second quarter.

The NanoGrowth 1000n equipment chosen incorporates an innovative, low-temperature growth module that will allow precision carbon nanotubes and related nanomaterials to be grown repeatably at much lower temperatures than normal—down to 350 degrees C initially and potentially even lower.

**The capability will help researchers to explore growth on a very wide range of target substrates from active silicon devices to flexible polymer substrates.**

One of Georgia Tech 's major research aims is to investigate the development of carbon nanotube (CNT) heatsink structures to dramatically increase heat conduction and dissipation capability - combating a prime cause of silicon chip failure and supporting further advances in integration density and performance.

**The NanoGrowth tool is one of the first and most important pieces of capital equipment that will be available to the NEST team. The tool includes both CVD (chemical vapor deposition) and PECVD (plasma-enhanced CVD) processing capability, allowing CNT growth at 'standard' temperatures in and around the 500-1000 degrees C range, as well as at much lower temperatures of 350-400 degrees C and below**



*Surrey will deliver its nano-material growth tool next quarter.*

Low temperature growth is particularly interesting, as it opens up many new application areas for CNTs. However, the team is equally interested in NanoGrowth's conventional high temperature growth capability, as the tool will be available to a wide spectrum of nanotechnology researchers and students.

**Developed with the help of groundbreaking research into CNT fabrication undertaken at the U. K. University of Surrey's Advanced Technology Institute, NanoGrowth comes with proven recipes for the precise and repeatable growth of CNTs and other nanomaterials.**

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