

November 25, 2008

### **CTD Receives NASA Award for TEMBO® Reflectors**

Lafayette, Colorado – Composite Technology Development, Inc. (CTD) was awarded \$1.1 million over a period of three years by NASA in response to the 2008 Research Opportunities in Space and Earth Science (ROSES) request for proposal. This coveted grant was won in competition with 85 peers; the “Large Aperture, Solid Surface Deployable Reflector” proposal submitted by Dr. Robert Taylor from CTD was selected due to its “intrinsic merit, relevance, responsiveness to Earth Science goals and objectives, as well as realism of cost.” Of the 16 total awards granted, 10 went to NASA labs, two went to major universities, and only four went to private industry. The other industry award winners were Lockheed Martin, ITT, and Ball Aerospace.

Enabled by proprietary TEMBO® elastic memory composite materials, CTD has developed a series of lower cost solid surface antenna reflectors that provide cost-effective performance improvement for commercial, Department of Defense, and NASA applications. TEMBO® EMC structures are fabricated using conventional composite manufacturing processes, utilizing commercial carbon fiber reinforcements combined with CTD’s TEMBO® shape memory polymers, to provide high performance structures that can be efficiently packaged for launch and autonomously deployed for service while on orbit.

“We were very pleased to receive this award,” stated CTD President Dr. Naseem Munshi, “we have a longstanding relationship with NASA and our TEMBO® EMC materials have been successfully qualified for space applications on the International Space Station, NASA’s MISSE Experiment, as well as on an Airforce mission. We expect to work with NASA on many other projects and this confirms our belief that CTD’s deployable reflector technology can provide high frequency performance and more than triple the available aperture on a given satellite.”

Currently where four 3 meter reflectors are stored on a satellite bus, TEMBO® reflectors can enable the storage of four 5 meter reflectors. Also, for smaller satellite applications, the packaging efficiency of the TEMBO® reflector systems will enable more satellites with larger reflector aperture to be packaged into smaller, lower cost launch vehicles.

More information on CTD’s TEMBO® reflectors is available at: [www.ctd-materials.com](http://www.ctd-materials.com)