

### **ADA Technologies Awarded \$100K Contract to Develop Improved Thermal Interface Materials for Use in Microchips**

**DENVER (November 8, 2010):** ADA Technologies, Inc. received a \$100,000 contract from the U.S. Air Force for Phase I research into the development of improved thermal interface materials (TIM) for use in microchips.

Thermal management is a limiting factor in further reduction of microchip size, as well as in the design of more complicated circuits for a variety of applications, including solid state tactical lasers, non-lethal denial technologies, and power metal-oxide-semiconductor field-effect transistors (MOSFETs).

ADA's research focuses on developing uniquely treated carbon nanotubes (CNTs) dispersed in a polymer. The research addresses the challenge of interfacial resistance between CNTs and mating surfaces, resulting in higher performing and lower cost TIMs, in comparison to current state-of-the-art.

According to Sayangdev Naha, Ph. D., project principal investigator, "ADA's approach will enable a TIM with much greater bulk thermal conductivity, a high degree of mechanical compliance and at costs projected to be substantially lower than current state-of-the-art CNT-based TIMs. Thus, the commercial potential of the proposed technology is considerable."

ADA's nanotechnology program was established in 2007 and to date has received over \$2M in funding.

**ADA Technologies, Inc.** ADA Technologies, Inc. is a research, development, and commercialization company that specializes in creating and converting innovative technologies to commercial successes. Headquartered in Littleton, Colorado, ADA has received more than 180 research grants totaling more than \$50 million. For more information, call 303-792-5615.

###



*Technologies, Inc.*

*Taking Today's Technologies into Tomorrow's Markets*