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## PRESS RELEASE

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### **Diffusive Heatsink Materials Among Other High Quality New Nanotechnology Products to be Showcased at *nanotxUSA'08***

*Commercial volumes of consistently high quality nanoparticles to be featured by Applied Nanotech Holdings*

Dallas, Texas, September 18, 2008 – Applied Nanotech Holdings, Inc. just announced that its subsidiary, Applied Nanotech, Inc. will showcase several new advanced nanotechnology products at nanotxUSA'08 to be held October 2-3 in Dallas, Texas at the Hyatt Regency convention hotel. Eagerly awaited new products now available are metallic nanoparticles including copper, silver, nickel, aluminum, zinc, iron and cobalt; and a unique heat sink material known as CarbAITM composite will be shown.

"This availability of commercial volumes of consistent high quality nanoparticles is the result of our metallic ink development project that we undertook with our strategic partner," said Tom Bijou, Chairman and CEO of Applied Nanotech Holdings, Inc. "We are pleased to make available the results of this development work and to enable greater access to the unique and beneficial characteristics these nanomaterials provide, which will ultimately contribute to the advancement of the nanotechnology industry."

Detailed information regarding the metallic nanoparticles can be found on ANI's website <http://www.appliednanotech.net/ANI/nanoparticles>.

Dr. Zvi Yaniv, ANI President and CEO, noted "**nanotxUSA** provides an opportunity for us to present our revolutionary high thermal diffusive materials that may provide solutions to the needs of the microelectronic industry for low cost high quality heat sink material. This new material is lighter than traditional metallic heat sinks while being three times more effective at diffusing heat."

The new CarbAITM heat sink material is a nanocomposite of a carbonaceous type of material and aluminum. The aluminum content is only 20%, while the thermal transmission of the new material is approaching 500 W/mK (for comparison aluminum thermal conductivity is 203 and copper is 390). A technical summary of the CarbAI material can be found at:

<http://www.appliednanotech.net/TechnologyPlatforms/materials/CarbAI.asp>

In addition to these newly available products, ANI will also exhibit innovations from its extensive patent portfolio, including inkjettable conductive copper ink, epoxy nanocomposites, sensors, CNT electron emission based devices such as sensors and neutron generators, etc.

See <http://www.nanotxUSA.com> for more information about the nanotxUSA'08 Conference and Expo.

### **ABOUT APPLIED NANOTECH HOLDINGS, INC.**

Applied Nanotech Holdings, Inc. is a premier research and commercialization organization dedicated to developing applications for nanotechnology with an extremely strong position in the fields of electron emission applications from carbon film/nanotubes, sensors, functionalized nanomaterials, and nanoelectronics. It also possesses investments related to electronic digitized signtechology. ANI has over 250 patents or patents pending. Its business model is to license its technology to partners that will manufacture and distribute products using the technology. ANI's website is [www.appliednanotech.net](http://www.appliednanotech.net).

### **About *nanotxUSA'08***

Conference/Trade Expo with Global Partner *nano tech Japan*, highlights advances in nanoscience, explains how nanotechnology is being used today and how it will impact a broad range of industries tomorrow, including: electronics, energy, aerospace, defense, biomedicine, robotics, chemicals and more.

**nanotxUSA** has established a reputation for delivering solid content, compelling panel discussions, early-stage investment opportunities and a world-class roster of presenters. The signature Nobel Laureate Legends reception offers its fine networking tradition with new surprises for exhibitors and their guests.

[www.nanotxUSA.com](http://www.nanotxUSA.com).

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