

NEWS RELEASE

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Applied Nanotech To Exhibit Inkjet Printed Copper Circuits On Paper At Printed Electronics USA 2009

Austin, TX, November 19, 2009 – Applied Nanotech Holdings, Inc. (OTC BB: APNT) announced that it has successfully inkjet printed its nanoparticle copper inks onto commercially available paper substrates forming highly conductive patterns for electronic circuits. This significant technological achievement paves the way for low cost solutions for applications such as smart labels, RFIDs, paper displays, electronic paper, and disposable electronics on paper substrates.

At the ID TechEx Printed Electronics Conference in San Jose, CA from December 1-4, 2009, Applied Nanotech will also show its latest development in Ni nanoparticle inks and nanoparticle based aluminum and copper pastes for photovoltaics and other applications. This is the largest conference in North America dedicated to the printed electronics industry, and showcases recent advances in the industry. (<http://www.idtechex.com/printedelectronicsusa09/en/>)

“This achievement demonstrates our ability to understand the specific needs of the industry and to use our expertise in nanotechnology to provide total solutions to our customers,” said Dr. Zvi Yaniv, CEO of Applied Nanotech, Inc. “Our expertise in nanoparticles, ink formulations, printing equipment, and substrates allow us to quickly bring new technologies to market.”

“We continue to broaden our portfolio of ink technologies to address application specific needs of the printed electronics industry,” said Doug Baker, CEO of Applied Nanotech Holdings, Inc. “We are on the forefront of nanoparticle ink technologies and will continue to develop innovative solutions for our customers.”

For more information about sales of our inks, related products, or to discuss application needs, please contact Applied Nanotech, Inc. at sales@appliednanotech.net or visit with ANI at Printed Electronics USA 2009 in San Jose, CA December 1-4.

ABOUT APPLIED NANOTECH HOLDINGS, INC.

Applied Nanotech Holdings, Inc. is a premier research and commercialization organization focused on solving problems at the molecular level. Its team of PhD level scientists and engineers work with companies and other organizations to solve technical impasses and create innovations that will create a competitive advantage. The business model is to license patents and technology to partners that will manufacture and distribute products using the technology. Applied Nanotech has over 250 patents or patents pending. Applied Nanotech's website is www.appliednanotech.net.

SAFE HARBOR STATEMENT

This press release contains forward-looking statements that involve risks and uncertainties concerning our business, products, and financial results. Actual results may differ materially from the results predicted. More information about potential risk factors that could affect our business, products, and financial results are included in our annual report on Form 10-K for the fiscal year ended December 31, 2008, and in reports subsequently filed by us with the Securities and Exchange Commission ("SEC"). All documents are available through the SEC's Electronic Data Gathering Analysis and Retrieval System (EDGAR) at www.sec.gov or from our website listed above. We hereby disclaim any obligation to publicly update the information provided above, including forward-looking statements, to reflect subsequent events or circumstances.

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