

Press Release

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Advanced Diamond Technologies Introduces New Varieties of Diamond Coated Wafers for MEMS and Electronic Devices

Romeoville, IL, July 16, 2007—Advanced Diamond Technologies, Inc. (ADT), the world leader in developing and applying diamond films for industrial, electronic, and mechanical applications unveils new varieties in its product line of diamond coated wafers for accelerating the development of MEMS and electronic devices at SEMICON West 2007, July 17-19, 2007, in San Francisco, CA.

ADT's new products include Diamond on Insulator (DOI™) wafers, an extension of its Diamond on Silicon (DoSi™) wafers made from the vapor deposition of ADT's phase-pure ultrananocrystalline diamond (UNCD®) on silicon wafers. The DoSi wafer products received Frost and Sullivan's 2006 Product Innovation of the Year award for diamond films.

UNCD DOI wafers serve as platforms to test device concepts and develop processes to enable wafer-scale diamond applications across a broad spectrum of products including MEMS and electronics. ADT's advancement, at last, makes diamond an engineering material suitable for volume production of many types of devices.

"We believe that a reliable supply of our commercial grade diamond coated wafers will stimulate the development of diamond MEMS and electronic devices. Today's product launch brings diamond MEMS devices one step closer to volume production—making diamond as an engineering material a reality," said ADT president Neil Kane.

ADT is also pleased to announce the award of a Phase I Small Business Innovation Research (SBIR) grant from the National Science Foundation (NSF) for the development of "Starter Wafers for Diamond MEMS Fabrication."

"This project allows us to further expand the UNCD DOI product line by demonstrating the integration of other common MEMS materials such as metals, nitrides, and complex oxides with UNCD. We will show that diamond wafers with outstanding uniformity can be manufactured in sizes up to 200 mm and meet MEMS foundry standards for cleanliness and reproducibility," said ADT chief technical officer Dr. John Carlisle.

Semiconductor Equipment and Materials International (SEMI), the leading semiconductor equipment trade association, selected ADT as a Technology Innovation Showcase 2007 award winner. ADT will feature its new products at SEMICON West 2007 in Booth T-14 on Level 2 of the West Hall in the Moscone Center. Kane will also be speaking there Wednesday, July 18th at 11:45 a.m. in the TechXPOT located just steps away from the ADT booth.

About Advanced Diamond Technologies

Formed to commercialize the ultrananocrystalline diamond technology developed at Argonne National Laboratory (Argonne), ADT is the exclusive licensee to Argonne's portfolio of patents for synthesizing and using UNCD and has received generous support from the NSF through its SBIR program, U.S. Department of Energy, and the Defense Advanced Research Projects Agency (DARPA). ADT is a World



ADVANCED DIAMOND TECHNOLOGIES, INC.

PR Contact: Jill Jackson
Calyx Consulting
312.231.9870

Economic Forum 2007 Technology Pioneer and a Red Herring 100 Award finalist as well as being a runner-up for the *Wall Street Journal's* Technology Innovation Award.

For more information about ADT, visit www.thindiamond.com.

About SEMICON West

SEMICON West is the premier annual event for the debut of new products, technologies, and solutions for microelectronics design and manufacturing.

For more information about SEMICON West, visit <http://semiconwest.semi.org/index.htm>.

About the U.S. National Science Foundation's SBIR Program

The NSF SBIR program encourages small businesses to explore technological potential and provides the incentive to profit from its commercialization.

For more information about NSF's SBIR program, visit www.nsf.gov/eng/iip/sbir/.

PR Contact:

Jill Jackson
Calyx Consulting
Tel: 312.231.9870
Fax: 312.264.0319
Email: info@calyxconsulting.com
www.calyxconsulting.com

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