



**FOR IMMEDIATE RELEASE**

**ISTN & ITRI TO COLLABORATE ON DEVELOPMENT OF NANOTECHNOLOGY-BASED COMPUTER COOLING SYSTEM**

SPRINGFIELD, VA and YORK, PA (MARCH 29<sup>th</sup>, 2004) – ISTN announced today a joint development agreement beginning April 1<sup>st</sup> with the Industrial Technology Research Institute (ITRI), the primary R&D center for emerging technology in Taiwan, to develop computer cooling systems using ISTN's proprietary nanocomposite technology.

ISTN will initially receive funding from ITRI over a two-year period to help create new heat-pipe and thermoelectric devices using ISTN's silica nanopore technology. ITRI has an impressive record of technology commercialization, especially in the electronics industry. Successful spin-offs based on ITRI R&D include Taiwan Semiconductor (\$4.6 billion in 2002 sales) and United Microelectronics (\$1.9 billion).

This alliance will combine ISTN's expertise in nanostructured materials with ITRI's extensive know-how and resources in electronics. As the density of transistors in silicon chips continues to increase, the need to remove the heat created becomes increasingly important. ISTN's work with heat transfer at submicron dimensions dates back to 1992, when Dr. Arthur Yang, ISTN's President, received an ATP grant to develop nanopore thermal insulation while at Armstrong World Industries.

"Working with ITRI creates a unique opportunity for ISTN to apply its technology," said Frank Yang, ISTN's Director of Business Development. "ITRI has demonstrated a strong desire to capitalize on the commercial benefits of nanotechnology, and it has established a formidable track record of creating viable technology and products for many industries, most notably electronics."

Since 1996, ITRI's OpenLab program has sponsored 163 projects resulting in the creation of 101 companies with a combined market capitalization of over \$1.2 billion. Recently, ITRI launched a six-year, \$300 million program dedicated to nanotechnology research which is aimed at "converting the sweeping promises of the nano-world into strategic real-world applications."

**ABOUT ISTN:**

Founded in 1997, ISTN ([www.istninc.com](http://www.istninc.com)) is an advanced technology company specializing in the development of nanotechnology-enabled products. These products rely on the control of material composition, form and structure at the nanometer scale to deliver a superior combination of cost-effectiveness and performance. The Company is currently utilizing its proprietary silica nanopore technology to develop a variety of products, including several for opto-electronic applications.

**ABOUT ITRI:**

ITRI ([www.itri.org.tw](http://www.itri.org.tw)) was founded in 1973 as a non-profit R&D organization with the mission to accelerate advanced technology development in Taiwan. Since then, ITRI has established Taiwan as a world-wide center for the semiconductor, flat-panel display, and optoelectronic industries. As the technical arm of the Taiwanese government, ITRI provides a partnership with Taiwan's industry to drive technological development.

**CONTACT:**

Frank C. Yang  
Director of Business Development, ISTN  
Phone: (703) 822-2931  
E-mail: [fcyang@istninc.com](mailto:fcyang@istninc.com)

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