



FOR IMMEDIATE RELEASE

Semprius Receives Investment from Applied Ventures

Strategic investment to enable development of new generation of flexible electronics and integrated heterogeneous semiconductors

Durham, NC – July, 2007 – Semprius, Inc., a semiconductor technology company, announced today that Applied Ventures, LLC, the venture capital arm of Applied Materials, Inc. (*Nasdaq: AMAT), has made a strategic investment in Semprius. The investment will be used for the development of a novel transfer printing technology for the manufacture of advanced semiconductor devices.

Semprius is developing unique patented technology for the transfer printing of high-performance semiconductors onto virtually any hard surface, including glass, flexible or rigid plastic, metal or other semiconductors. Semprius' technology will provide the ability to create novel devices and systems by liberating the semiconductor from its traditional rigid substrate. Very tiny circuits can be efficiently and cost effectively transferred by the hundreds, and even thousands, at a time in the printing process.

"We are delighted to have Applied Ventures as an investor," said Joe Carr, CEO of Semprius. "Because we are developing capabilities suitable to a wide range of applications, relationships with world leaders such as Applied Materials are key to our development and business strategy."

"Semprius' printing technology is in line with Applied Venture's investment strategy to stimulate the growth of applications for semiconductors, displays and other product areas," said J. Christopher Moran, Vice President and General Manager of Applied Ventures. "We believe Semprius has unique technology that can offer significant performance and cost advantages for many advanced electronic applications."

In April 2007, Semprius raised \$4.7 million in Series A funding from Arch Venture Partners, Intersouth Partners and Illinois Ventures to continue its process development. Just recently, Semprius was awarded a Small Business Innovation Research Phase I grant by the National Science Foundation to help demonstrate transfer printing of high-performance semiconductors on flexible materials.

In June, Semprius received the 2007 Spin-out of the Year award given by the Council for Entrepreneurial Development, the largest entrepreneurial support organization in the nation. Last fall, the company won top honors in The Wall Street Journal's Sixth Annual Technology Innovation Award in the semiconductor category.

About Applied Ventures

Applied Ventures, LLC (<http://www.appliedventures.com>), a subsidiary of Applied Materials, Inc., invests in early stage companies with high growth potential pursuing technologies that provide a natural extension to Applied Materials' core business and

innovations that stimulate the growth of applications for semiconductors, displays and related products and services. Applied Materials, Inc. is the global leader in Nanomanufacturing Technology™ solutions with a broad portfolio of innovative equipment, service and software products for the fabrication of semiconductor chips, flat panels, solar photovoltaic cells, flexible electronics and energy efficient glass (<http://www.appliedmaterials.com>).

About Semprius

Semprius, Inc. is commercializing a newly invented process for printing high-performance single crystal semiconductors on any substrate, including glass, plastic and other semiconductor materials. Initial applications of the technology include high frequency radio frequency semiconductors for mobile communications, TFT backplanes for flat panel displays and flexible digital X-ray detectors. The overall result is vast gains in performance for these types of devices at lower manufacturing costs. Semprius is located in Research Triangle Park, North Carolina. For more information, please visit www.semprius.com

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Media Contact:

Karl von Gunten

Office: 919-460-6984

Mobile: 919-931-1434

karl.vongunten@semprius.com