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US Contact:

Missy Bindseil

+1 (830) 237-9527

[mbindseil@nanogram.com](mailto:mbindseil@nanogram.com)

Japan Contact:

Koichi Miyamoto

+81 3 5366 2431

[kmiyamoto@nanogram.com](mailto:kmiyamoto@nanogram.com)

Korea Contact:

Pete Han

+82 2 456 7301

[phan@nanogram.com](mailto:phan@nanogram.com)

## NanoGram Corporation and Teijin Limited Enter Printed Silicon TDA

**Milpitas, CA** – March 16, 2009 – NanoGram Corporation, a leading developer and manufacturer of advanced products and solutions for optical, electronic and energy applications, announced today that it has entered into a technology development agreement (TDA) with Teijin Limited to further develop NanoGram’s printed silicon ink.

The TDA will focus on extending NanoGram’s printed silicon ink technology for use with Teijin’s flexible substrates. The ink-substrate package targets light, flexible and printed electronics applications including flat panel display backplanes and thin film photovoltaics (TFPV).

Flexible displays and TFPV represent a next generation growth opportunity within already compelling industries. According to DisplaySearch, the display market is expected to reach \$132B in 2013. The Prometheus Institute recently targeted TFPV to represent 40 percent of the overall photovoltaics market by 2012.

“Our new relationship with Teijin speaks to NanoGram’s mission of providing low-cost, high performance silicon solutions for energy and electronics,” said NanoGram President and CEO Dr. Kieran Drain. “This TDA is an important next step in the realization of printed silicon electronics.”

“We are excited to be working jointly with NanoGram to develop flexible energy and electronics utilizing Teijin’s market-leading substrates,” said Teijin Group Executive Officer Kenji Kubo. “Integration of silicon on plastics promises to open new large markets.”

NanoGram’s silicon inks are designed to fulfill a much sought-after need within the printed electronics toolkit – that of a printable semiconductor capable of exceeding incumbent silicon transistor performance.

The inks leverage NanoGram’s laser pyrolysis-based Nanoparticle Manufacturing (NPM™) process for high volume production of crystalline silicon nanoparticles. Intrinsic and doped silicon nanoparticles are carefully collected and dispersed into a variety of ink formulations developed internally which meet specific printing specifications. The non-pyrophoric inks can be used in conventional manufacturing facilities with available printing equipment, thus lowering barriers for device manufacturers to adopt these materials.



**About NanoGram ([www.nanogram.com](http://www.nanogram.com))**

NanoGram Corporation is a pioneer and leading Cleantech solutions provider that enables customers and partners to realize product and system performance previously thought impossible. NanoGram develops, manufactures, and sells silicon-based photovoltaics as well as advanced nanomaterials, process technologies, and production tools for optical, electronic and energy products. NanoGram also offers complete licensing packages that include proven materials production processes, surface modification and dispersion technologies, process transfer expertise, and ongoing support.

**About Teijin Limited ([www.teijin.co.jp](http://www.teijin.co.jp))**

Teijin is a global technology-driven group operating in seven main fields: synthetic fibers; films and plastics; pharmaceuticals and home health care; trading and retail; and IT and new products. Teijin Limited is listed on the Tokyo and Osaka stock exchanges and has a market capitalization of USD 4.1 billion. The company had consolidated sales of USD 10.3 billion in fiscal 2007, and employs approximately 19,000 people worldwide.

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