



Contact Us

RSS

Join Email List

Email

Join

Search

Search

[About Foresight](#) [News & Events](#) [Foresight Challenges](#) [About Nanotechnology](#) [Resources](#) [Blog](#) [Members](#) [Store](#)



« [Room temperature NDR molecular switch made in Israel](#)  
[Sapphire can facilitate useful nanotube production](#) »

### [Nanofountain pen developed at Northwestern](#)

From a [Northwestern press release](#): "Researchers at Northwestern University have demonstrated writing at the sub-100 nanometer molecular scale in fountain-pen fashion. They developed a novel atomic force microscope (AFM) probe chip with an integrated microfluidic system for capillary feeding of molecular ink...The Nanofountain Probe (NFP) developed by [Horacio D. Espinosa](#), professor of mechanical engineering, and his colleagues employs a volcano-like dispensing tip and capillary fed solutions to enable sub-100 nanometer molecular writing." (Source: NanoApex)

Nanofountain Probe: clever technology, clever name. I'm betting we'll see a lot more nanotech innovation from mechanical engineers. –CP

This entry was posted on Wednesday, April 27th, 2005 at 10:52 am and is filed under [Nanoscale Bulk Technologies](#), [News](#). You can follow any responses to this entry through the [RSS 2.0](#) feed. You can [leave a response](#), or [trackback](#) from your own site.

### One Response to "Nanofountain pen developed at Northwestern"

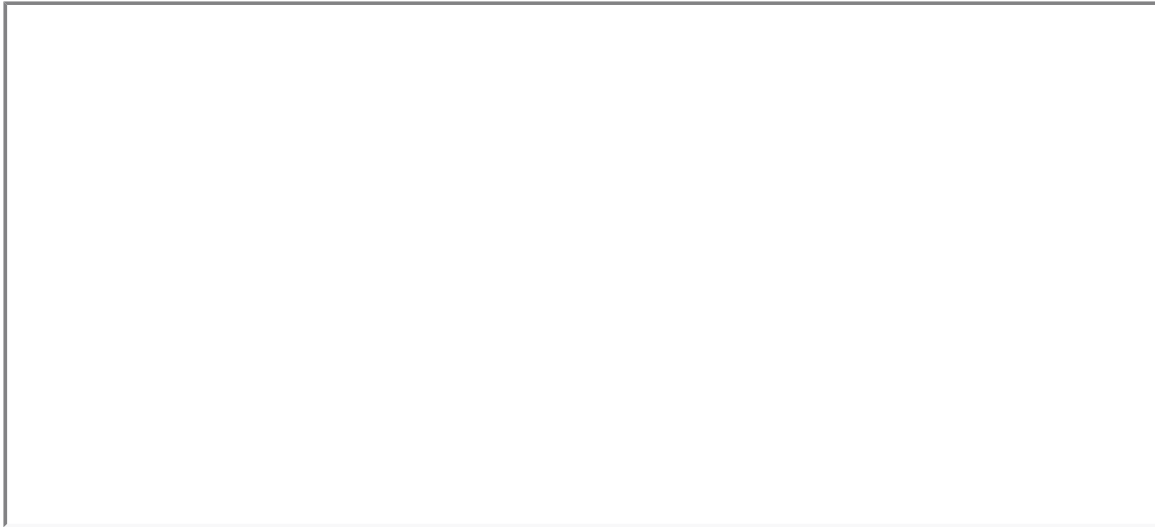
1. [RobertBradbury](#) Says:  
[April 27th, 2005 at 1:56 pm](#)

#### Additional comments...

[Roland](#) contributed the following, "I'm sure that almost all of you have used a fountain pen. But imagine a pen drawing lines only 40 nanometers in width. Now, it can be done with the Nanofountain Probe (NFP) developed by scientists at Northwestern University. [This innovative fountain pen](#) "employs a volcano-like dispensing tip and capillary fed solutions to enable sub-100 nanometer molecular writing." But it needs to be mounted on an atomic force microscope (AFM) to be useful, so it probably is something you'll not find at your local drugstore for a while. However, this nanofountain probe could have applications for nanosensors, biotechnology and pharmaceuticals. Read more for [other details, pictures and references](#)."

#### Leave a Reply

Name Mail Website



Submit Comment

Nanodot: Nanotechnology News and Discussion is proudly powered by [WordPress](#) [Entries \(RSS\)](#) and [Comments \(RSS\)](#).

[Home](#) [About Foresight](#) [News & Events](#) [Foresight Challenges](#) [About Nanotechnology](#) [Resources](#) [Discussions](#) [Store](#) [Privacy Policy](#)

Foresight materials on the Web are ©1986-2005 Foresight Institute. All rights reserved. [Legal Notices](#).

[Web site development by Netconcepts](#). [Email marketing by gravityMail](#). Maintained by [James B. Lewis Enterprises](#).