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Newsletter

Volume 4 Issue 8 - August 2011

The NNN Newsletter

Nanomaterials, Informatics Included in Food and Drug Administration's Strategic Plan for Regulatory Science



Tasked with the core responsibility of protecting and promoting the health and safety of Americans through enhancing the availability of safe medical products and foods, the U.S. Food and Drug Administration (FDA) recently released a document titled Advancing Regulatory

Science at FDA: A Strategic Plan. Central to FDA's responsibilities is advancing the public health by expediting innovations that make foods safer and medicines and medical devices safer and more effective. In this capacity, the FDA must make decisions based on the best available scientific data, using the best tools and methods available in order to ensure products meet the highest quality standards for consumers. Concurrently, the FDA seeks to foster and advance innovation in the products it regulates, further noting in the document that rapid advances in innovative science have provided new technologies to discover, manufacture, and assess novel medical products, and to improve food safety and quality. As such, the strategic plan was developed to keep pace with these innovations and incorporate new scientific advances within the regulatory process, including developing new tools, standards, and approaches to assess the safety, efficacy, quality, and performance of FDA-regulated products.

[More....](#)

Regards,
Jeff Morse, Managing Director,



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Job Opportunities

[CHM Postdoctoral Research Associate Position at NIST CNST](#)

[Senior/Staff Nanotechnology Process Integration Engineer](#)

[Nano-material Scientist - Agilent Technologies](#)

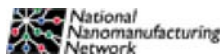
Upcoming Events

Aug 29 - Sep 2, 2011
[International Conference on Manipulation, Manufacturing and Measurement on the Nanoscale](#)

Sep 19 - 20, 2011

National Nanomanufacturing Network

Learn More about the



New Technique Scales Up Nanofiber Production



A new spin on an old technology will give scientists and manufacturers the ability to significantly increase their production of nanofibers, according to researchers at North Carolina State University.

Collections of nanofibers, because they are porous and lightweight, are useful in applications ranging from water filtration to tissue regeneration to energy storage. Although nanofibers are relatively inexpensive to produce, the current method of production – needle electrospinning – is time-intensive. [More....](#)

An Impermeable Wrap for Future Electronics



A moisture-resistant coating that extends the lifetime and reliability of plastic electronic devices, such as organic

solar cells or flexible displays, has garnered the intense interest of developers of next-generation lighting materials. By cranking out large sheets of polymers bearing electronic circuitry using roll-to-roll technology, electronics manufacturers can substantially reduce their capital and processing costs. The possibilities for low-cost flexible panel lighting inspiring, says Senthil Ramadas, co-founder and chief technology officer of Tera-Barrier Films — a company spun-out of the A*STAR Institute of Materials Research and Engineering (IMRE) in 2009. "Flexible devices can take any form — thin films of organic lighting could cover entire ceilings or wrap around pillars. [More...](#)

Superhydrophobic Tracks for Drop Transport Open Path to Low-cost Microfluidics

[Center for Nanophase Materials Sciences \(CNMS\) User Meeting](#)

Sep 21 - 22, 2011

[Materials by Design - Workshop](#)

Sep 25 - 29, 2011

[US-EU-Africa-Asia-Pacific and Caribbean Nanotechnology Initiative \(USEACANI\) 2011](#)

Sep 25 - 27, 2011

[Nanomanufacturing Summit 2011](#)

Oct 2 - 5, 2011

[WAVE 2011 Conference](#)

[View Full Calendar](#)

Upcoming Calls

[SPIE Defense, Security, and Sensing 2012](#)

Submissions until October 10

[MRS Spring Meeting 2012](#)

- submissions accepted until: November 1, 2011

[SPIE Photonics Europe 2012](#)

Submissions until November 7

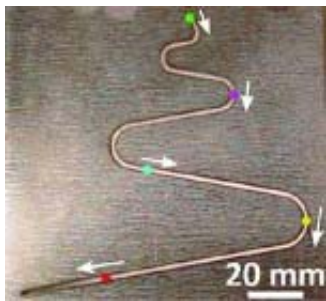
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Recently Published

From Our Affiliates

Formation of Crystalline Cadmium Selenide Nanowires
[Chemistry of Materials](#)



Researchers in Finland and Israel have now explored the feasibility of using superhydrophobicity for guided transport of water droplets in microfluidic devices.

Reporting their work in a recent issue of *Advanced Materials* ("[Superhydrophobic Tracks for Low-Friction, Guided Transport of Water Droplets](#)"), they demonstrate a new, simple and general approach for transportation of water droplets based on superhydrophobic technology. Water droplets are transported at high velocity in almost totally water-repellent tracks with vertical walls. Drops move in open tracks, machined in metal or silicon wafers, using gravity or using electrostatic charge. [More....](#)

[Read more on](#) **InterNano**

[23\(14\):3371-3376](#)

Size-Selective Template-Assisted Electrophoretic Assembly of Nanoparticles for Biosensing Applications
[Langmuir 27\(11\):7301-7306](#)

Unusual strategies for using indium gallium nitride grown on silicon (111) for solid-state lighting

[Proceedings of the National Academy of Sciences of the USA 108\(25\):10072-10077](#)

Nanodiamond Therapeutic Delivery Agents Mediate Enhanced Chemoresistant Tumor Treatment
[Science Translational Medicine 3\(73\):73ra21](#)

Exposure assessment of nano-sized and respirable particles at different workplaces
[Journal of Nanoparticle Research 13\(9\):4161-4172](#)

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