

NANO @ IOWA

News from The Nanoscience and Nanotechnology Institute at UI

October 6, 2009

Items in **red** are new this issue.
(Others are carried forward from previous issues.)

1. Upcoming conferences and seminars including nanoscience and nanotechnology:

- **Webcast: Nanomaterials and the Environment & Instrumentation, Metrology, and Analytical Methods**
National Nanotechnology Initiative
Tuesday, October 6 8:00 - 11:00 a.m.
Register at this link:
<https://comp11.eventcenterlive.com/cfm/ec/register/reg.cfm?BID=1&RegID=F11511F4>
- **Workshop: Nanomaterials and Human Health & Instrumentation, Metrology, and Analytical Methods**
National Nanotechnology Initiative
November 17-18, 2009
Arlington, VA
<http://www.nano.gov/html/meetings/humanhealth/>
- **“An Integrated Approach Toward Understanding the Toxicity and Occupational Health Hazards of Commercially Manufactured Metal and Metal Oxide Nanoparticles”**
Professor Vicki H. Grassian
Departments of Chemistry and Chemical & Biochemical Engineering
Friday, October 9, 2009 10:30am 2117 MERF
The University of Iowa, Iowa City, Iowa
- **Symposium: *Nanoscience and Nanotechnology: Environmental and Health Aspects* 44th Annual Midwest Regional Meeting of the American Chemical Society (ACS)**
October 23, 2009
Sheraton Hotel & Conference Center, Iowa City, IA
www.mwrm2009.org
- **SC09, International Conference for High Performance Computing, Networking, Storage and Analysis**
November 14-20, 2009
Oregon Convention Center
Portland, Oregon
<http://sc09.supercomputing.org/>
 - **Fifth International Workshop on High Performance Computing for Nano-science and Technology (in conjunction with SC09)**
November 15, 2009
<http://www.hpcnano.org/HPCNano09/index.html>

2. Upcoming grant opportunities and funding requests in nanoscience and nanotechnology:

- **Metallic Materials and Nanostructures (MMN)**
National Science Foundation
Program Number PD 03-1771
Full Proposal Window: September 1 – October 31, 2009
http://nsf.gov/funding/pgm_summ.jsp?pims_id=5351

- **NanoThermal Interfaces (NTI)**

Department of Defense

Funding Opportunity Number: DARPA-BAA-08-42

Closing Date for Applications: May 21, 2009

<http://www07.grants.gov/search/search.do;jsessionid=L1wK3gQVwKFJNITCSMLfBYcGBpp5yF9812Y6GN1ST0f1tnTms59v!293637734?oppld=41766&flag2006=false&mode=VIEW>

3. Highlights of some new interesting nanoscience and nanotechnology research and articles:

- **Beyond the Biopsy: A Tiny Monitor for Cancer**

Doctors doing a needle biopsy to analyze tissue for cancer may one day add a second step to the procedure: depositing a tiny device at the site to report on growth of a tumor — and even the effects of chemotherapy.

Michael J. Cima, Alliance investigator at the MIT-Harvard Center of Cancer Nanotechnology Excellence, led a team of scientists in creating an implantable device that may one day track cancer growth in humans.

http://www.nytimes.com/2009/08/30/business/30novel.html?_r=2&sq=nanoparticle&st=cse&adxnnl=1&scp=1&adxnnlx=1253656945-DW1+Au1Fx/MOyrTc1uFP/Q

- **Nanodiamonds Advance Anticancer Gene Therapy**

Gene therapy holds promise in the treatment of cancer as well as a large number of other diseases. However, developing a scalable system for delivering genes to cells both efficiently and safely has been challenging. Now, two teams of researchers have developed versatile nanotechnology-enabled platforms that could get therapeutic genes safely and efficiently into cancer cells. http://nano.cancer.gov/action/news/2009/sep/nanotech_news_2009-09-23d.asp

- **Nanosilver Antimicrobial Claim Draws EPA Fine**

Per the NanoReg Report, “One of the most prevalent uses of nanomaterials is the use of nanoscale silver as an antibacterial and it has not gone unnoticed by federal regulators. In the latest Agency enforcement action it fined VF Corporation \$1 million for making “unsubstantiated public health claims regarding unregistered products, and their ability to control germs and pathogens.” VF Corporation owns The North Face, a popular sportswear brand for outdoor apparel and gear. The EPA specifically cited more than 70 styles of footwear that incorporate an AgION silver treated footbed.

<http://yosemite.epa.gov/opa/admpress.nsf/0/BCBD9B468B9AAF67852576390055DE2F>

About NANO @ IOWA

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