

February 10, 2009

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**Next Week:**

**Spring 2009 Symposium Series  
"Bridging the River through Nanoscience and  
Nanotechnology"**

**Thursday, February 19, 2009  
12:30-5:00pm      2117 MERF**

**Jointly Sponsored by NNI@UI and  
the Institute for Clinical and Translational Science (ICTS)**

**Register for Symposium & Poster Session at:  
<http://research.uiowa.edu/nniui/symposium.html>**

**Keynote speaker:**

Dr. Samuel Wickline, Washington University, St. Louis

<http://cardiology.wustl.edu/details.aspx?NavID=599>

*"Targeted Nanoemulsion Theranostics for Cancer and Cardiovascular Disease"*

**Other Speakers Include:**

• **Sarah C. Larsen**

NNI@UI Associate Director and Professor of Chemistry

*"Development of Porous Nanomaterials for Applications in Drug Delivery and Imaging"*

• **Kevin Rice**

Professor and Division Head, Medicinal & Natural Products Chemistry and  
Professor of Pharmaceutics

*"Design Principles of Nano-Scale Gene Delivery Polyplexes"*

• **Clark Stanford**

Associate Dean for Research, Centennial Fund Professor and Director, Office  
for Clinical Research

*"Osseous Response to Nanoscale Topographical Features on Medical Devices"*

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## 1. Other upcoming conferences and seminars in nanoscience and nanotechnology:

- **4<sup>th</sup> Annual Greener Nanoscience Conference & Program Review**

***Nanoscience for a Sustainable Future***

Safer Nanomaterials and Nanomanufacturing Initiative (SNNI)

March 2-3, 2009

Eugene, OR

<http://oregonstate.edu/conferences/greenernano2009/>

- **Bacterial Interactions with Engineered Nanomaterials**

Continuing Spring 2009 Symposium Series,

“Bridging the River through Nanoscience and Nanotechnology”

Patricia Holden, Professor of Environmental Microbiology

Bren School of Environmental Science & Management

University of California Santa Barbara

March 5, 2009            4:00-5:00pm            3321 SC

Seminar Reception, 3:30-4:00 (3501 SC)

University of Iowa, Iowa City, IA

- **Advances in Translational Science**

March 11-13, 2009

Tucson, AZ

<http://www.tms.org/meetings/annual-09/AM09home.aspx>

## 2. Upcoming National Science Foundation Research Experiences for Undergraduates (NSF-REU) Program in Nanoscience and Nanotechnology:

The Nanoscience and Nanotechnology Institute at the University of Iowa (NNI@UI) will host a summer undergraduate research program funded by the National Science Foundation Research Experiences for Undergraduates (NSF-REU) program. This is the second of three years for the NNI@UI REU program. The program will start on May 26, 2009 and will end on July 31, 2009.

The REU program will provide eight rising junior or senior undergraduate students with research experience in cutting edge topics related to environmental and health aspects of nanoscience and nanotechnology. REU participants will have the opportunity to work with faculty mentors from the departments of Chemical and Biochemical Engineering, Civil and Environmental Engineering, Chemistry, Pharmacy, and Occupational and Environmental Health.

[http://research.uiowa.edu/nniui/reu\\_2008/index.html](http://research.uiowa.edu/nniui/reu_2008/index.html)

## 3. Upcoming grant opportunities and funding requests in nanoscience and nanotechnology:

- **Technology Innovation Program (TIP)**

Call for White Papers

TIP is seeking white papers to help shape the Programs' collaborative outreach and competitions in the future.

Deadlines: March 9, May 11, July 13, 2009

[http://www.nist.gov/tip/frn\\_seeking\\_whitepapers.pdf](http://www.nist.gov/tip/frn_seeking_whitepapers.pdf)

- **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=L1wK3gQVwKFINITCSMLfBYcGBpp5yF9812Y6GN1ST0f1tnTms59v!293637734?oppld=41766&flag2006=false&mode=VIEW>

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

- **Iron-Containing Nanomaterials Can Damage Skin**

Iron-containing nanomaterials can cause inflammation and other cell damage if it touches skin, conclude the researchers who tested the particles on engineered skin, human skin cells and mice skin. The particles may be a health risk for workers who make or use the tiny single-walled carbon nanotubes (SWCNT), as well as consumers of the final products that contain them.

<http://www.merid.org/NDN/more.php?id=1709>

- **Stimulus debate highlights need for focus on nanotech risks**

The nearly \$800 billion stimulus package being debated in Congress contains a number of measures intended to improve information technology, infrastructure and the energy

economy in the United States The importance of understanding the possible risks posed by engineered nanomaterials is a centerpiece of legislation passed February 11 in the House of Representatives. The bill, the National Nanotechnology Initiative Amendments Act of 2009 (H.R. 554), which passed by a voice vote, highlights the growing need to learn more about the possible environmental, health and safety dangers posed by some nanoscale materials. The Senate is expected to take up a companion bill later this year.

[http://www.eurekalert.org/pub\\_releases/2009-02/poen-sdh021109.php](http://www.eurekalert.org/pub_releases/2009-02/poen-sdh021109.php)

- **Process that may Revolutionize the Manufacture of Nano-Devices**

Yale engineers have created a process that may revolutionize the manufacture of nano-devices from computer memory to biomedical sensors by exploiting a novel type of metal. The material can be molded like plastics to create features at the nano-scale and yet is more durable and stronger than silicon or steel.

<http://www.azonano.com/news.asp?newsID=9859>

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### **About NANO @ IOWA Weekly**

NANO @ IOWA Weekly is a weekly electronic newsletter to inform faculty, staff, and students about important news and events in nanoscience & nanotechnology. This newsletter is provided as a service of The Nanoscience and Nanotechnology Institute at UI (NNI@UI).

If you have news for NANO @ IOWA Weekly, please send an e-mail to [NNI@uiowa.edu](mailto:NNI@uiowa.edu) or call Jackie Jensen at 319-384-3292.

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<http://research.uiowa.edu/nniui/>