

1. Upcoming conferences and seminars in nanoscience and nanotechnology:

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

NNI@UI

in collaboration with

the Institute for Clinical and Translational Science (ICTS)

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

Thursday, February 19, 2009

2117 MERF

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, Professor of Chemistry
"Development of Porous Nanomaterials for Applications in Drug Delivery and Imaging"
- Kevin Rice, Professor and Division Head, Medicinal & Natural Products Chemistry
Professor, Pharmaceutics
"Design Principles of Nano-Scale Gene Delivery Polyplexes"
- Clark Stanford, Associate Dean for Research, Centennial Fund Professor, Director,
Office for Clinical Research
"Osseous Response to Nanoscale Topographical Features on Medical Devices"
- **Optics, Particles and Surfaces: FTIR spectroscopy as a Versatile Probe of the Properties and Chemistry of Engineered Nanoparticles, Atmospheric Aerosols and Environmental Interfaces**
(OSTC Seminar)
Professor Vicki H. Grassian, NNI@UI Director, UI Professor of Chemistry, Chemical and Biochemical Engineering, and Public Health
January 28, 2009 12:30pm
104 IATL
University of Iowa, Iowa City, IA
- **TMS 2009 Annual Meeting and Exhibition**
February 15-19, 2009
San Francisco, CA
<http://www.tms.org/meetings/annual-09/AM09home.aspx>
- **4th 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/>

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

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

- **Nanoscience and Nanotechnology in Biology and Medicine (R01)**

U.S. Department of Health and Human Services

National Institutes of Health

Program Announcement Number: PA-08-052

Application/Receipt Date: January 25, 2009

<http://grants.nih.gov/grants/guide/pa-files/PA-08-052.html>

- **Nanoscience and Nanotechnology in Biology and Medicine (R21)**

U.S. Department of Health and Human Services

National Institutes of Health

Program Announcement Number: PA-08-053

Application/Receipt Date: January 25, 2009

<http://grants.nih.gov/grants/guide/pa-files/PA-08-053.html>

- **Discovery Research K-12 (DR-K12)**

National Science Foundation

Solicitation: 08-1788

Full Proposal Deadline: February 15, 2009

http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5260&org=NSF&sel_org=NSF&from=fund

4. **Recent Achievements of NNI@UI researchers:**

- **NNI@UI team develops class for UI College of Education Belin-Blank Center Junior Scholars Academy (JSA)**

NNI@UI Education & Outreach Coordinator, Dr. Russell Larsen, and NNI@UI Associate Director, Dr. Sarah Larsen, in partnership with NNI@UI, the [Institute for Clinical and Translational Science](#) (ICTS), and the [Department of Chemistry](#), have developed a class for The Connie Belin & Jacqueline N. Blank International Center for Gifted Education and Talent Development at The University of Iowa. The class, "Nanomedicine: Small Medicine with a Big Impact", will be offered June 21-26, 2009 to students in grades 6 through 8 who are members of Belin-Blank Exceptional Student Talent Search (BESTS) or past Belin-Blank Center Scholarship Programs. The class will be taught by Dr. Russell Larsen and Dr. Nicholas Ndiege, postdoctoral associate with NNI@UI.

http://www.education.uiowa.edu/belinblank/summer/programs/6-8/jsa/session_2/nanomedicine.asp

- **Pharmacy postdoctoral researchers receive fellowships**

Tim Brenza and Caitlin Lemke, postdoctoral research scholars in the UI College of Pharmacy, have been awarded fellowships for 2009-2010 by the Pharmaceutical Research and Manufacturers of America Foundation (PhRMA). Brenza and Lemke each will receive a stipend of \$40,000 a year for two years. NNI@UI Executive Committee member, Aliasger Salem, and Jennifer Fiegel, NNI@UI Core Faculty Member, serve as research mentors for Brenza and Lemke, respectively.

<http://www.pharmacy.uiowa.edu/news/index.htm>

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

- **Toxin-Nanoparticle Combo Inhibits Brain Cancer Invasion While Imaging Tumors**
Working with a nanoparticle designed to target and image glioblastoma, a form of brain cancer, investigators at the University of Washington in Seattle have found that these same nanoparticles inhibit tumor cell invasion, one of the key events that leads to the metastatic spread of cancer. The investigators have also determined how the nanoparticles exert this potentially beneficial effect.
http://nano.cancer.gov/news_center/2009/jan/nanotech_news_2009-01-16c.asp
- **Nanotechnology Bill Would Have Obama Think Small**
The U.S. House of Representatives Technology Committee has reintroduced [legislation](#) to reauthorize the National Nanotechnology Initiative and beef up environmental and health research related to nanotechnology. The bill is essentially the same one overwhelmingly passed by the full House last fall.
<http://blogs.sciencemag.org/scienceinsider/2009/01/nanotechnology.html#more>
- **Nanosensors Made Easy**
A trick to assemble nanowires on silicon could lead to cheap, tiny sensing devices. Treated nanowires could serve as very sensitive toxin or pathogen detectors. But while nanowire sensors have been made in the lab, they have been difficult to mass-produce, mainly because there is no quick and easy way to place the tiny wires at precise locations on a surface.
<http://www.technologyreview.com/computing/21974/page1/>

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 or call Jackie Jensen at 319-384-3292.

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