

## *-Nano Northwest Newsletter*

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## *Center for Nanotechnology & NanoTechnology User Facility News:*

Welcome once again to the Nano Northwest Newsletter –newsletter sponsored by the UW Center for Nanotechnology and the NanoTech User Facility to consolidate announcements and information for CNT-affiliated UW faculty and students, local nanotech businesses and others in the Northwest nanotechnology community.

### **NEWS**

### **Coming Up...**

#### **Conferences**

**January 27, 2006**

**February 23-24, 2006**

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### **CONNECTIONS**

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## *Announcing the 2006 National Nanotechnology Infrastructure Network Research Experience for Undergraduates NNIN REU Program*

### *June through August, 2006*

The online application for the 2006 Research Experience for Undergraduates Program hosted by the National Nanotechnology Infrastructure Network (NNIN REU) is now live. Please forward this notice to any engineering and science students who have an interest in nanotechnology.

All undergraduates who are Citizens or Permanent Residents of the United States are eligible to apply if they are not graduating before the end of the program in August 2006. Minority and female candidates are especially encouraged to apply. We are particularly interested in students without previous research experience and students from smaller colleges and universities. We expect to fill approximately 50 positions at the nine participating NNIN sites.

Selected students will undertake a hands-on nanofabrication research project with applications to bio-engineering, chemistry, electronics, materials science, optics, optoelectronics, and physics. Students interested in the biological application of nanotechnology are also encouraged to apply.

A three-day scientific conference, the network-wide NNIN REU Convocation, is held in August to allow each intern the opportunity to present their work to their peers in the form of a concise scientific presentation. Each intern must submit a final report which is published in the NNIN REU Research Accomplishments. (Find these at [http://www.nnin.org/nnin\\_reu.html](http://www.nnin.org/nnin_reu.html).)

Further information and the online application for the NNIN REU Program are available at: [http://www.nnin.org/nnin\\_reu.html](http://www.nnin.org/nnin_reu.html).

Please contact:  
Lynn Rathbun, Ph.D.  
NNIN Program Manager  
[rathbun at cnf.cornell.edu](mailto:rathbun@cnf.cornell.edu)

-Or-

Melanie-Claire Mallison  
NNIN REU Program Assistant  
[mallison at cnf.cornell.edu](mailto:mallison@cnf.cornell.edu)

***New Postdoc Fellowship- For interested nano students and postdocs  
Application Deadline, February 6, 2006***

Sigma Xi seeks a fellow who will work with the office of an independent oversight and policy Board of an independent federal agency in the Washington, DC area. This office funds a significant portion of all federally supported basic research conducted by America's colleges and universities. The successful candidate will be supporting international science and engineering partnerships and a proposed Commission for 21st Century Education in Science, Mathematics and Technology (the Commission). If you are interested in learning more, please visit: <http://www.sigmaxi.org/fellow.shtml>. This is an 18-month appointment beginning immediately upon hire. The application deadline is Monday, February 6, 2006. To be considered, please submit a cover letter and resume to:

Yolanda Thorpe-Harris  
Director of Human Resources  
Sigma Xi, The Scientific Research Society  
PO Box 13975  
Research Triangle Park, NC 27709-3975  
[hrdept at sigmaxi.org](mailto:hrdept@sigmaxi.org)

***Washington Technology Center Research Grant Spring Round Opens-Apply for R&D***

Are you working on a technology innovation with near-term commercial potential? If you are a business entrepreneur or academic faculty member conducting critical research to develop a new product or process, then a grant from the Washington Technology Center (WTC) may be just what you need to move forward. WTC awards hundreds of thousands of dollars in grants to Washington-based research teams in an effort to help transition great ideas out of the laboratory and into the marketplace.

Research and Technology Development (RTD) awards help Washington companies grow faster, create jobs and attract investors by providing that critical early-stage funding needed to advance scientific research and product development.

This funding pays up to 80% of the cost of research projects -allowing you to channel your capital to other business growth needs or continue working on breakthrough scientific discoveries.

WTC allocates more than \$1.3 million annually toward these grants which are awarded on a competitive basis to collaborative research teams working on innovative technology projects with strong commercial potential.

WTC is now accepting proposals for its next round of grants which will be awarded in June, 2006. Get into the loop. Important dates are below. Or, attend an orientation meeting for more information on this program.

**Notice of Intent Deadline:** March 23, 2006

**Proposals Due:** April 27, 2006

### *Promotion of up-coming Access IQ-Lab event*

#### *Feb 8th*

The Access IQ- Lab event will be held here on campus. There are two free tickets available to attend this event, please send your name to [heussk@watechcenter.org](mailto:heussk@watechcenter.org). We will host this event in Feb and then we will host another in May.

For more information, please contact:

Kim Heuss  
Director of Communications  
Washington Technology Center  
Tel: 206-616-2847  
Email: [heussk@watechcenter.org](mailto:heussk@watechcenter.org)

### *Faculty Position Nanoscience Ph.D. South Dakota School of Mines & Technology*

South Dakota School of Mines & Technology (SDSM&T) invites applications for a tenure-track position at the Assistant or Associate Professor level. We are seeking applicants with expertise in structural and surface characterization of nanomaterials and/or nanoscale devices. Individuals with a research emphasis on transmission/scanning electron microscopy, atomic force microscopy, and other analytical methods are particularly encouraged to apply.

The successful candidate will be a faculty member in an interdisciplinary doctoral program in Nano-science and Nano-engineering. It is expected that this faculty member will teach graduate courses in the area of his/her expertise, specifically a required course in "Characterization of Nanomaterials", and will establish an externally-funded research program. Applicants must possess a PhD or equivalent degree in a science or engineering discipline.

SDSM&T is a state university providing undergraduate and graduate degrees in science, engineering, and interdisciplinary sciences. SDSM&T has a student population of approximately 2,300 traditional and non-traditional learners representing 40 states and 24 countries. SDSM&T is located at the foot of the beautiful Black Hills in Rapid City, South Dakota's second-largest city. Twenty minutes from Mount Rushmore, Rapid City has a relatively mild climate, and the Black Hills offer numerous opportunities for summer and winter outdoor experiences. For more information regarding the university, visit [www.sdsmt.edu](http://www.sdsmt.edu)

Please submit CV, short description of research interests, up to three representative publications, and contact information for three references to:

Ms. Christal Krein  
Physics Department  
South Dakota School of Mines and Technology  
501 East Saint Joseph Street  
Rapid City, SD 57701-3995  
1st Review Date of applicants: 1/30/06

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## *EVENT*

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### *NIH Nanomedicine Development Centers - Information Meeting*

#### *January 27 in Bethesda*

The purpose of this notice is to inform potential applicants for an NIH Nanomedicine Development Center (NDC) that an informational meeting will be held to describe the NIH Roadmap Nanomedicine Initiative. It is anticipated that an NIH Roadmap Request for Applications for NDC awards will be published in the NIH guide prior to the meeting.

**Date:** Friday, January 27, 2006

**Time:** 8:00 AM to 1:00 PM EST

**Place:** Masur Auditorium, NIH Campus, Bethesda , MD

Questions before or during the meeting broadcast may be submitted to by email to [Nanomed at nih.gov](mailto:Nanomed@nih.gov). Include "Nanomed Info" in the subject line.

Specific programmatic inquiries concerning the Nanomedicine Roadmap Initiative should be directed to:

Richard S. Fisher, Ph.D.  
Nanomedicine Project Team Leader  
National Eye Institute  
5635 Fishers Lane, Suite 1300  
Bethesda , MD 20892-9300 ( Rockville , MD 20852 for overnight delivery services)  
Telephone: (301) 451-2020  
Email: [cornea at nih.gov](mailto:cornea@nih.gov)

## *The Future of Nanoplastics*

*February 23-24, 2006*

*Hilton Palacio Del Rio,*

*San Antonio, Texas*

The new two days program explores the very latest commercial developments in nanoplastics. Our expert speakers from across the plastics supply chain will demonstrate not only the potential nanotechnology offers them, but also some real life applications for both today and tomorrow. The program will explore a variety of end uses with expert views from leading **automotive manufacturers, consumer products companies** and other **end users of plastics**. Hearing from the end users gives you the opportunity to evaluate the real potential of this market beyond the hype. The conference also features manufacturers of plastics performance, giving you a greater understanding of how this technology can add value for your business. Presentations from leading technology providers will give you an exclusive opportunity to compare and contrast the very latest technologies to improve your plastics.

For further information of the conference please contact:

Conference Manager:

Ciaran Little

Telephone: 207.781.9606

Fax: 207.781.2150

Email: [ciaranl@pira-international.com](mailto:ciaranl@pira-international.com)

Or visit: <http://www.hybridplastics.com/pdf/Future%20Nano.pdf>

## *3rd Annual Conference on Foundations of Nanoscience: Self-Assembled Architectures and Devices (FNANO06)*

*Noon April 23 - noon April 27, 2006*

*Snowbird Cliff Lodge, Snowbird, Utah*

This is a yearly conference on foundations of nanoscience, maintaining the highest scientific standards. Self-assembly is the central theme of the conference. Topics include self-assembled architectures and devices, at scales ranging from nano-scale to meso-scale. Methodologies include both experimental as well as theoretical approaches. The conference spans traditional disciplines including chemistry, biochemistry, physics, computer science, mathematics, and various engineering disciplines including MEMS.

Paper and Poster Submissions: <http://fnano06.cs.duke.edu/submit/> (This submission website will be open starting Feb. 1)

Submission Deadline: February 15, 2006 (a firm deadline).

Submission Requirements: If you wish to present a talk or poster at FNANO06, you need to submit by February 15, 2006 an extended abstract of at least one page in PDF format. Even if your talk is invited, you still need to submit at least a one page abstract by this date.

Submission Method: Submissions are electronic via a Web interface at the above Paper and Poster Submission Website. Please make sure you have a browser that supports uploading via a web form.

Acceptance/Rejection Decisions are determined by March 1, 2006.

Hotel Accommodations: <http://www.cs.duke.edu/~reif/FNANO/venue.html>  
For more information please visit: <http://www.cs.duke.edu/~reif/FNANO/>

### *WTC Feature Events: Plan Now to Attend*

*April 28, 7 a.m. to 6 p.m.*

#### *Microsoft Conference Center, Redmond*

Reserve your space today for the 2nd annual Washington Technology Summit, our state's premier conference for making connections and keeping on top of industry trends. WTC's Tech Summit examines strategies and tactics that Washington's industry, academic and economic development leaders can use to position our state at the forefront of technology innovation. For more information, please visit: <http://www.watechcenter.org>

### *2006 Symposium on Nanotechnology for Cancer Prevention, Diagnosis and Treatment CancerNano*

*May 7 - 11, 2006*

#### *Hynes Convention Center*

*Boston, Massachusetts, U.S.A*

[http://www.nsti.org/Nanotech2006/symposia/Cancer\\_Diagnostics\\_Imaging\\_Treatment.html](http://www.nsti.org/Nanotech2006/symposia/Cancer_Diagnostics_Imaging_Treatment.html)

Event Contact:

696 San Ramon Valley  
Boulevard, Suite 423  
Danville, CA 94526  
Tel: (925) 901-4959  
Fax: (925) 886-8461  
[wanning@nsti.org](mailto:wanning@nsti.org)

### *CALL FOR PAPERS: 3rd Annual Micro Nano Breakthrough Conference, 2006*

*July 24-26, 2006*

#### *Hilton Hotel*

*Vancouver, Washington*

#### **Call for Papers:**

You are invited to submit papers for the following sessions listed below. [Apply online today!](#) Abstracts (300 words maximum) must be submitted no later than **March 15, 2006**. You will be notified by May 1, 2006. If your proposed paper is accepted, the abstract will be distributed to all conference attendees and posted on the conference website. Any presenter who doesn't register for the conference by June 1, 2006 will be dropped from the program.

**Sessions with 15 min presentations followed by Q&A:**

- Micro/Nano S&T Drives Northwest Economy (3 papers)
- Advances in Agriculture and Food Processing (3 papers)
- Nanotechnology and Its Use in Medicine (3 papers)
- Green Micro/Nano Technology-Solutions that Protect the Environment (3papers)
- Advances in Forest Industry and Products (3 papers)
- Advances in Display Technologies (3 papers)
- Nanometrology (3 papers)
- Micro Devices-Micro Chemical & Thermal Systems (3 papers)
- MEMS Hydraulics & Power Generation (3 papers)
- Use of Micro/Nano Technology in Medical Devices (3 papers)
- Nanomaterials (6 papers)
- Advanced Energy Systems (6 papers)
- Defense and Security (3 papers)
- Environmental Clean Up (3 papers)
- Cancer Diagnosis and Treatment (3 papers)
- Nanoelectronics (3 papers)

Contact: Conference Manager, [Dr. David L. Brenchley](#)

***Asian Consortium for Computational Materials Science***

***September 7-9, 2006***

We would like to bring to your attention that the ACCMS meeting (The Asian Consortium on Computational Materials Science) will be held in Sendai, Japan.

Asian Consortium for Computational Materials Science (ACCMS) has entered into the 5th year of its existence and we have successfully organized three conferences involving various active research groups in the Asian region. In order to optimally utilize our resources and manpower, it is widely felt that we should have a few working group meetings on the emerging areas of materials science. In view of the phenomenal growth in experimental as well as computational research in the field of clusters and nanomaterials all over the world, it is worthwhile to mobilize the community of people working in this area in different Asian countries and regions. We propose to have the first Working Group Meeting on Clusters and Nanomaterials organized under the banner of ACCMS and the Cluster Science initiative in Japan. The scope of this meeting will encompass fundamentals as well as application aspects of all nano-scale materials and phenomena. The deliberations will include theoretical as well as experimental research in this field.

The topics covered will include

- Metallic and Semiconducting Clusters
- Fullerenes and Nanotubes
- Cluster Assembled Materials
- Nano-spintronics Materials
- Transport in Nanoscale and Molecular Electronics
- Quantum Dots
- Biological Materials

- Methodologies for Size-dependent Properties

The venue, dates and expected number of participants and deadlines are : Venue : Institute for Materials Research, Tohoku University, Sendai, Japan  
Expected number of participants: 100  
Deadline for submission of Abstracts: June 7, 2006

Additional information about the conference can be found at  
<http://www-lab.imr.edu/~accms/>

Or contact:  
Dr. Hiroshi Mizuseki  
Institute for Materials Research  
Tohoku University  
URL: <http://www-lab.imr.edu/~mizuseki/contactme.html>

***nanoTX '06 Conference and Expo***  
***September 27-28, 2006,***  
***Dallas Convention Center***

Inside-information disclosed under one roof at nanoTX '06 is cutting edge across all fields. The promise of Nanotechnology is now profoundly effecting everyone's future. "The future may become a wonderland of opportunity only for the minority among us who are affluent, mobile, and highly educated. And it may at the same time become a digital dark-age for the majority of citizens-the poor, the non-college educated, and the so-called unnecessary," writes David Kline in Wired magazine. The National Science Foundation reports that by 2015 nanotech will be a stampeding "\$1Trillion industry." Not being on the cutting edge means falling behind. Whether yours is business, industry, techni/science or as individuals, such high-level knowledge is vital. "The way you manage and exchange information and the way you learn as a company-those are your only sustainable advantages," says Robert Shapiro, chairman of Monsanto. Come learn how it is all coming together during International Nanotechnology Week™ and nanoTX '06, where you belong.

Contact information:  
437 Southfork, Suite 400 D/FW, Texas 75057  
Phone: 214.513.9567 Toll Free: 866.815.0565

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## **CONTACT**

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### ***Submissions & Comments:***

To submit an Announcement or Comment to the Nano Northwest Newsletter please send to  
[nano\\_submit@u.washington.edu](mailto:nano_submit@u.washington.edu).

### ***Sign Up & Removal:***

To sign up or to be removed from this newsletter, please go the general membership home page located at  
[https://mailman.u.washington.edu/mailman/listinfo/nano\\_newsletter](https://mailman.u.washington.edu/mailman/listinfo/nano_newsletter).