

-Nano Northwest Newsletter

Article Links:

[NEWS](#) · *General CNT/NTUF and Business Industry*

[CONNECTIONS](#) · *Jobs, Collaborations, Grants & Scholarships*

[EVENTS](#) · *Seminars, Conferences, and Calls for Papers*

[CONTACT](#) · *Submissions, Suggestions, and Removals*



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

March 31, 2006	The 2nd NTUF TechForum
April 10-11, 2006	Global Horizons: America's Challenge in Science and Innovation
April 17-21, 2006	2006 MRS Spring Meeting
April 23-27, 2006	3rd Annual Conference on Foundations of Nanoscience: Self-Assembled Architectures & Devices (FNANO06)
April 24-26, 2006	Photon Forum 2006
April 25-27, 2004	The first Russian/American International Seminar on Advanced Resonant Fields
April 28, 2006	2006 Tech Summit
May 8, 2006	AccessIQ: "The Business of R&D"
May 17-19, 2006	NanoBusiness 2006
June 20-22, 2006	POGIL Workshop
July 24-26, 2006	3rd Annual Micro Nano Breakthrough Conference
September 27-28, 2006	Nanoforum
November 16-17, 2006	2006 NanoBiotech World Congress

[-top-](#)

CONNECTIONS - JOBS

Surface Chemist

A vigorous San Francisco Bay Area start-up, funded by three major Bay Area VC firms is seeking for two surface chemists, with biomolecules/surfaces interaction experience:

1. A surface chemistry group leader (who's led an R&D team and knows product-development life cycles) and
2. A surface chemist.

The key requirement is the expertise in the interaction between biomolecules and various surfaces. Both positions - junior and senior - entail a lot of interdisciplinary interaction. The staff consists of a broad spectrum of scientists, physicists, and engineers. The work environment is very team-focused; it's fast-paced and creative and would good provide excellent exposure to product development. This is an opportunity to have an impact on a cutting-edge technology and to broaden one's technical skills.

For more information, please contact:

Mary Arcana
Principal,
Biotecher
Biotechnology Recruiting
Tel: 510.482.4094
Fax: 510.531.9498
[mary at biotecher.com](mailto:mary@biotecher.com)

Postdoctoral Research Opportunity - NASA Ames Research Center

The UARC at NASA Ames Research Center (San Francisco Bay Area, CA) has postdoctoral research opportunity in the field of nanoelectronics. The researcher will work closely with scientists on exploratory nanotechnology-based computing and information storage technology.

The task includes: design, fabrication, and characterization of prototype nanodevices for various applications. The experiment work will be performed at NASA Ames and Stanford University Nanofabrication Facility. Qualification: Ph.D. in Electrical Engineering or other related fields. Experience in cleanroom nanofabrication (e-beam lithography, etc.) and solid knowledge in semiconductor device and characterization is required. U.S. citizen or permanent resident is preferred.

Applicants please send resume, list of publication, and the names of three referees to: [byu at mail.arc.nasa.gov](mailto:byu@mail.arc.nasa.gov)

CONNECTIONS - COLLABORATIONS

NineSigma

Program Objective: NineSigma, representing The Dow Chemical Company is seeking proposals describing methods for functionalizing polyolefins to increase adherence of to other materials.

Requesting Organization: The Dow Chemical Company

Submission Date: March 22, 2006

Opportunity Type: Licensing, contract research, proof of concept leading to scale-up, joint development, supplier agreement, etc.

Program Manager: Frank Tropper, Ph.D. frpinfo@ninesigma.com

Not ready to submit. http://www.ninesigma.net/mx/304599/submit_proposal?requestnum=30459-9&subm. Let us know of your interest.

Ready to submit? http://www.ninesigma.net/mx/304599/submit_proposal?requestnum=30459-9

[-top-](#)

EVENT

The 2nd NTUF TechForum

March 31, 2006

Case Study: Gold Nanoparticle Arrays and Their Unique Optical Properties

Location: Fluke Hall Bowen Conference Room (1st floor and north entrance of fluke hall)

Time: 12:00 - 1:00 pm on March 31, 2006 (Friday)

Presenter - Qiuming Yu, PhD (NTUF Senior Research Scientist and NTUF lab manager)

Nanostructures have attracted much attention due to fascinating properties that are superior to those of bulk materials. In this technical forum, Dr Yu will brief on the fabrication of gold nanoparticles arrays with a focus on their applications for surface-enhanced Raman scattering (SERS). The fundamental of Raman scattering and SERS will be covered and the potential applications of SERS as a biosensor will be discussed. This presentation will also serve as a vehicle to demonstrate the full capacity of NTUF equipment portfolios.

Dong Qin, PhD MBA

Associate Director, Center for Nanotechnology

University of Washington, Seattle, WA 98195

Voice: 206-616-2118; Fax: 206-221-2528

<http://depts.washington.edu/ntuf>

www.nano.washington.edu

Global Horizons: America's Challenge in Science and Innovation

April 10-11, 2006

AAAS and the University of Southern California, institutions with proven track records and a common mission around advancing science and technology, are joining forces to present special tours of USC's state-of-the-art facilities and a one-day conference, Global Horizons:

America's Challenge in Science and Innovation, 10-11 April 2006. The conference will feature some of the world's foremost scientific thinkers, futurists, and an audience vested in raising the nation's awareness of global challenges in science and innovation. Among those who are confirmed to participate are Chris Matthews, host of MSNBC's "Hardball with Chris Matthews," and Ray Kurzweil, inventor, entrepreneur, author, and futurist.

Three interactive sessions, Stem Cell Research: Are We Bystanders Or Key Players?; China and India: New Challengers Or Partners?; and Science and Innovation: What Matters Most Now?,

have been designed to contemplate America's international standing and preparedness to meet the future global challenges that science and technology will present.

The cost to attend the conference is \$35 per person. The tours are free of charge.

For more information, visit <http://www.usc.edu/conference125>
Or call: (213) 740-6786.

2006 MRS SPRING MEETING

April 17-21, San Francisco, CA

The 2006 MRS Spring Meeting, with over 3,100 papers in 36 topical symposia, continues the tradition of providing an interdisciplinary forum for the exchange of information and ideas at the forefront of materials research. Technical sessions span the latest developments in:

- * Microelectronic device processing and fabrication
- * Photonics, electronics, magnetics and sensors
- * Complex and biological nanoscale materials and systems
- * Energy and environment
- * Education in nanoscience and engineering

We also invite you to use our convenient new online hotel registration program. When you make your reservation in the MRS block at the San Francisco Marriott, your name will automatically be entered into a drawing for 1 of 5 free stays over the official Meeting dates (April 17-21, 2006). Winning guests will also have their rooms upgraded to a suite. Visit http://www.mrs.org/S06_lodging for details

Online pre-registration for the 2006 MRS Spring Meeting in San Francisco is now open at: <http://www.mrs.org/spring2006>

Register before 5PM (EST), March 31 and enjoy discounted rates.

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 conference is one of the nanotech-related conferences held this year focusing on the assembly aspects of nanosystems covering both fundamentals and applications. EE professors Babak Parviz and Karl Bohringer (Assembly Across Scales) and MSE Professor Mehmet Sarikaya (Nanosystems using Engineered Peptides and Proteins) are organizing two symposia. Everyone (specially grad students, postdocs, and young faculty) who would like their work to be exposed to a large contingent of prominent nanoscientists is encouraged to submit abstracts (March 15) to these or 12 other symposia at this conference to present posters and mingle with the nanocrowd. See the conference web-site

<http://www.cs.duke.edu/~reif/FNANO/FNANO06.html>

Please contact [sarikaya at u.washington.edu](mailto:sarikaya@u.washington.edu) for additional information.

Photon Forum 2006

April 24-26, 2006

The Charles Hotel · Cambridge, MA

Join industry leaders, CTOs, investors, technologists and analysts to examine emerging commercial opportunities in optics and photonics.

Whether you're an investor interested in optics and photonics advances or a product developer seeking funding, this is one event you can't afford to miss!

[CLICK HERE](#) for a complete agenda and register today.

The first Russian/American International Seminar on Advanced Resonant Fields: April 25-27, 2004, Saipan, Northern Mariana Islands, USA

Title: Introduction to Resonant Field Theory with special application to Photonic Computing.

This detailed set of seminars will cover the most recent and advanced science, combining Relativity with corrected Quantum Mechanics. It will explain the fundamental mechanism of physics, and will answer many long-pending questions including quantum gravity, antigravity, and quantized photonic computing. Because of its fundamental nature, it is expected that it will have a direct effect on your particular field, because it provides substantially better methods for more accurate subatomic measurements, and understanding of molecular assemblage. More information is provided, including a preview of some Resonant Field Theory evidence.

www.rmrc.org/rfi/broch.htm.

Complete details of the seminar itself, including pre-registration are available at www.ResonantFieldsInc.com.

Dr. John N. Hait

jhait@resonantfieldsinc.com

2006 Tech Summit

April 28, 2006

***Microsoft Campus - Conference Center
Redmond, Washington***

Reserve your space 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.

It is the only regional conference to bring together technology leaders from across the state to discuss trends, challenges, and opportunities across multiple technology industries central to Washington economic growth.

The Tech Summit combines general sessions that address strategies for overall industry growth in Washington with targeted industries tracks that address the individual opportunities within four

of our state's most viable technology sectors. In total, more than 38 speakers and presenters are part of this statewide conference.

Contact Information:

Angie Santo

asanto@watechcenter.org

AccessIQ: "The Business of R&D"

Thursday, May 18, 7 a.m. to 9 a.m.

University of Washington Club, UW Campus, Seattle, WA

Hosted by: The Microfabrication Laboratory at the Washington Technology Center

These morning sessions take a case study approach to exploring the latest R&D trends in micro- and nano-scale process development and fabrication. At the May 18 breakfast, the focus is the "Business of R&D" – how effective and innovative process development can open new doors for partnerships, product manufacturing, and, ultimately, commercial success. Industry partners and legal experts will discuss effective ways to recognize opportunities, protect intellectual property, and continue to innovate throughout the R&D, prototyping, and commercialization process.

To Register: Cost to attend the Business of R&D session is \$35. Fee includes breakfast and materials. Agenda details and registration available at www.watechcenter.org or contact 206-616-4187.

NanoBusiness 2006

May 17-19, 2006, New York, New York

The NanoBusiness Alliance Conference is designed to provide attendees with the information, knowledge and contacts required to move research and application development to commercialization, as well as to showcase the ongoing integration of small tech products into the global economy. NanoBusiness 2006 is expected to attract hundreds of business leaders, investors, venture capitalists, scientists, engineers, government officials and visionaries who are driving the nanotechnology revolution. Over three days of comprehensive corporate presentations, in-depth panels, executive keynotes, educational sessions, and networking opportunities.

For information on NanoBusiness 2006 sponsorship opportunities, please contact:

Vincent Caprio, Vice President and Event Director

Telephone: 212.330.7628, FAX 480.275.3662

E-mail: vince@nanobusiness.org

For information on NanoBusiness 2006 speaking opportunities, please contact:

Nathan Tinker, Conference Chair

Telephone: 203.229.0358

E-mail: ntinker@nanobusiness.org

Process Oriented Guided Inquiry Learning (POGIL) Workshops in Chemical Education for Spring/Summer 2006

- * Designing POGIL laboratory activities
- * Exploring currently available materials for general, organic, and/or physical chemistry
- * Addressing perceived barriers to POGIL implementation
- * Facilitating student learning in a POGIL classroom or laboratory
- * Handling classes of varying sizes, including the use of TAs and their training
- * Individualized consultation on specific issues and needs
- * Planning your "next step"

In addition to our standard 3-day workshops there are also several workshops with specialized purposes. Each of these is described below, along with a link to the corresponding announcement page at the POGIL website. You can also access information for all of these workshops directly from the home page of the POGIL website at <http://www.pogil.org>.

3-DAY WORKSHOPS IN YOUR REGION

Advanced POGIL Workshop: Writing Materials and Improving Classroom

Facilitation Seattle University (Seattle, WA) June 20 - 22 (Tuesday - Thursday)

Information and Online Application at <http://www.pogil.org/events/SeattleU.php>.

This workshop is specially designed for people who have prior experience in implementing POGIL in their classrooms. Participants will learn about the structure and design of POGIL activities, and will have opportunities to improve existing activities that they have written, or construct new ones, including individualized consultation. The workshop will also include activities designed to enhance the facilitation skills of participants. If desired, individuals will be able to focus primarily on one aspect (writing or facilitation).

For more information, please visit: www.pogil.org

POGIL Project
Process Oriented Guided Inquiry Learning
Franklin & Marshall College
PO Box 3003
Lancaster, PA 17604-3003
tel: (717) 358-4639
fax: (717) 358-4640

2006 Micro Nano Breakthrough Conference

July 24-26, 2006

Hilton Hotel

Vancouver, Washington

"BUILDING A MICRO/NANO ECONOMY"

Call for Papers:

You are invited to submit papers for the following sessions listed below. Apply online today! <https://secure.pnl.gov/mbc/mbc.nsf/abstract?OpenForm> 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 (3 papers)
- * 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)

Session where presenters use posters to talk one-on-one with people at a 2 hr reception:

- * Micro/Nano Poster Paper Session (30 papers)

Visit the 2006 Micro Nano Breakthrough Conference website:

<http://www.pnl.gov/microproducts/conferences/>

Read More about PNNL's Microproducts Breakthrough Institute:

<http://www.pnl.gov/microproducts/>

NanoForum-Second Edition

September 27-28, 2006

Politecnico di Milano, Sede Bovisa

Nanoforum wants to be the Italian meeting that gives the chance to the managers and to the operators to meet with each other, to exchange information, to set up new ideas and initiatives. Nanoforum wants to support the knowledge sharing.

The nanoforum second edition will be a moment of meeting oriented to the Italian managerial growing in a sector, in which little and medium business is already starting to operate, obtaining frequently surprising results.

The Researchers would be also able to find the answer to questions like:

How to procure the funds to start up a business?
How to carry out an industrial plan?
How to defend the intellectual property?
How to carry out distribution's agreements in Italy and in the foreign countries?

ITER srl, via Rovetta 18, 20127 Milano
Tel: +39 (0) 2 2831161
Fax: +39 (0) 2 28311666
Email: Nanoforum@iter.it –OR- www.nanoforum.it/en

NanoBiotech World Congress
November 16-17, 2006 Boston, Massachusetts

Call For Papers - deadline March 24, 2006

The IEE will publish a special issue of selected papers from the Congress in its Nanobiotechnology title IEE Proceedings Nanobiotechnology. Presenters submitting abstracts are invited to expand their work into a full research paper for consideration.

The selection of abstracts for presentation will be based on scientific merit and should be of current interest and not commercially biased.

Please complete this form in order to submit an abstract of your proposed presentation.

Session topics will include, but are not limited to:

- Nanodiagnostics
- Nanoparticles for imaging
- Advances in Single-Molecule Research
- Nanobiosensors
- Nanotechnology for biodefense
- Nanobiopharmaceuticals
- Nanobiotechnology-based drug discovery
- Nanobiotechnology-based drug delivery
- Nanomedicine
- Regulatory/safety issues of nanoparticles Nanobiotechnology markets
- Nanobiotechnology markets

Poster presentations:

If you would like to submit a poster abstract for consideration, [please click here](#): required form.
Deadline March 24, 2006

<http://www.selectbiosciences.com/conferences/nanobiotech2006/>

[-top-](#)

CONTACT

Submissions & Comments:

To submit an Announcement or Comment to the Nano Northwest Newsletter please send to 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.