NEWS

Town Hall Meeting

- Thursday, 12.21.06, 1:30PM Birck 1001

Kudos

- **Vlad Shalaev**'s work with Nanorod Materials wins in the Nano 50 Awards, named by Nanotech Briefs. Nanotech Briefs identifies the top 50 nanotechnology projects that have had a significant impact on, or are expected to impact, moving nanotechnology to market.
- **John Weaver** has become the Deputy Director for The Institute of Environmental Sciences and Technology's (IEST) Standard and Practice Committee 7 – Nanotechnology. John will be mainly responsible for Recommended Practice development activities within the SPC and assist Dave Ensor, Director, when necessary to elevate the SPC to the next level. The IEST, founded in 1953 as a not-for-profit association, is a multidisciplinary, international society whose members are internationally recognized for their contributions to the environmental sciences in the areas of contamination control in electronics manufacturing and pharmaceutical processes; design, test, and evaluation of commercial and military equipment; and product reliability issues associated with commercial and military systems.

Laboratory Keys

- Laboratory keys are being shared, which is a violation of BNC policies. Sanctions will be imposed on individuals and groups found violating this BNC policy. When a lab key is shared, a critical safety issue of the Center could be in jeopardy. In addition, financial implications are also experienced. If you have shared a key, please do not continue this practice. We appreciate the community's support.

NSAC

- **BNC faculty members:** please nominate one of your graduate students for membership on the Nano Student Advisory Council (NSAC). The NSAC provides a critical communication link between those who use the BNC facilities (mostly graduate students), the BNC staff, the BNC administration, and the faculty members. Activities of the NSAC include outreach, professional development, organizing seminars, and work with Policies and Procedures Committee. If you occupy a lab or office space and have three or more graduate students using the facility, please send your student nomination to NSAC President, Bridget Hines bdolash@pnhs.purdue.edu.
- **Job postings to be posted on bulletin board mounted near the break room:** when you learn of available positions that might be of interest to Birck graduate students and postdoctoral fellows, please forward the information to Brian Iverson (biverson@purdue.edu), Chair of the Professional Development.

Funding Alerts

- **NSF Major Research Instrumentation (MRI) competition:** Cris King reports that NSF has released a new RFP for this competition. The URL is http://www.nsf.gov/pubs/2007/nsf07510/nsf07510.htm. Please be sure to refer to this new document rather than the previous soliciation, when preparing your internal preproposal for this competition.
- **NSF: Biophotonics.** Deadline: 09.15.07. Focuses on the development of complex new integrated bio-optical technologies utilizing advances in optical technology such as nanoparticle fluorescent quantum-dots, novel waveguiding structures, plasmon surface resonance, nanofluidics, lens microarrays, nanochannel interconnects, and multi-function focal plane detector/emitter arrays, together with surface science, nanotechnology, and microelectronics to yield integrated optics solutions for a variety of purposes. Additional info: http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=501025&org=NSF&sel_org=NSF&from=fund

BIRCK LIVING
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Deborah Starewich, Editor

Mark Your Calendars

- Birck member and Associate Professor of Chemistry, **Alexander Wei,** will present "Plasmon-resonant Nanorods as Multifunctional Imaging Agent" on 12.14.06, 11:30 AM, MRGN 121. Gold nanorods have several outstanding characteristics as optical contrast agents for biomedical imaging. Their strong optical absorption at near-infrared (NIR) frequencies can be used to generate contrast for optical coherence tomography (OCT) imaging, and is well matched for detection modalities based on differential albedo. Nanorods can also be imaged directly by two-photon luminescence (TPL) with single-particle sensitivity, and are sufficiently bright to sdupport in vivo imaging applications. TPL imaging has been used to study the uptake of ligand-functionalized nanorods by tumor cells. Lastly, nanorods are excellent converters of light energy into heat, with direct application in photothermal therapy. This lecture is in the Cancer Prevention Seminar Series sponsored by the Oncological Sciences Center.
- **OFFICIAL University Holidays**: Friday, Dec. 22; Monday and Tuesday, Dec. 25 and 26; and Monday, Jan. 1

Mailing Lists

- **bnc-all@ecn.purdue.edu** e-mail ALL parties on BRK directory (includes staff, grad students, faculty, users)
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- **bnc-grads-list@ecn.purdue.edu** e-mail graduate students associated with the Birck Center
- **BNC-EngStaff@ecn.purdue.edu** e-mail engineering staff

Mail Delivery/Pick Up Times Changed: December 4

- **8:50AM and 1:10PM** are the new pick up/delivery times. UPS and Fed Ex will need to be in the mail room before lunch in order to be transported to MMDC for afternoon campus pick up. Please call MaryJo Totten with any questions.