

NEWS

TOWN HALL MEETING

* Thursday, 11.16.06, 1:30PM Birck 1001

CARRY IN SCHEDULED . . .

* Thursday, 11.30.06, 11:30AM Birck Atrium

KUDOS

- * **Sabre Kais** elected Fellow of the American Physical Society on the recommendation of the Division of Chemical Physics for "the development of a finite size scaling approach to calculate quantum critical parameters for atomic, molecular and quantum dot systems."

NSAC (NANOTECHNOLOGY STUDENT ADVISORY COUNCIL)

- * **Suggestion Box** . . . located in the receptionist area. NSAC members will read and act upon your comments. Is there a staff member whom you feel is doing an outstanding job? Make a nomination for Staff Member of the Month; Do you have a suggestion on how to improve lab policies, either for the general lab or the cleanroom? Anything else on your mind?

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 solicitation, 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

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 support 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.

MAIL SCHEDULE CHANGES . . . DECEMBER 4, 2006

- * Pick up times for the building: 8:50AM and 1:10PM; be sure to have your UPS and FedEx packages to Mary Jo's area prior to these times.

LIFE ON THE OUTSIDE

- * **Congratulations** to new grandpa Mark Voorhis for the newest addition to their family: **Grace**; born 10.20 at 7:19PM; 7 pounds, 3 ounces, 20 inches long. "Grandpa Voorhis is feeling really old now." Mark is the Birck Building Manager overseeing building operation, building infrastructure support, maintenance oversight, and the coordination of equipment installation. Mark's office is BRK 1214.



REFERENCE GUIDE

MAILING LISTS ESTABLISHED

- * Lists are moderated so e-mails sent to the lists will be reviewed before being sent.
- * If your e-mail appears on the BNC directory (sent out monthly for review), you'll appear on one or more mailing lists.
- * Use bnc-all@ecn.purdue.edu to send e-mail to ALL parties on our directory (includes staff, grad students, faculty, users - anyone on the BNC directory).
- * Use bnc-faculty-occupants-list@ecn.purdue.edu to send e-mail to faculty with offices in the Birck Center.
- * Use bnc-grads-list@ecn.purdue.edu to send e-mail to graduate students associated with the Birck Center.

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