Meet CSU's New Faculty

Dr. Jessica Bickel joined the College of Sciences and Health Professions this past fall as an assistant professor in the Department of Physics. Dr. Bickel is interested in nano-physics and surfaces. She uses scanning probe microscopy and computer simulations to examine surfaces in order to determine the atomic arrangement, and to understand how properties such as magnetism change when materials are shrunk to this size regime. Her previous work has ranged from understanding how strain affects the surface structure of semiconductor devices to how magnetism changes when the size of the magnet is shrunk to a few hundred atoms.

Dr. Bickel's current work is focusing on how surfaces can affect crystallization and properties. The arrangement of atoms on a surface has profound implications for devices because how new atoms arrange on a surface can affect how abrupt an interface between two materials is or how ordered the next layer of atoms are. She is particularly interested in exploring (1) how surface atomic arrangements can be manipulated and altered by straining the surface, (2) how we can use these surface structures to control self-assembly of nanostructures or molecules, (3) how such molecules diffuse and move across a surface, and (4) what the surface structure of different topological insulators is and how manipulating the surface can affect the properties.

Featured Researcher Video Series - Mark Sundahl

Dr. Mark Sundahl's research is the focus of the latest installment of the Featured Researcher Video series. Professor Sundahl is a Professor and Associate Dean in the Cleveland-Marshall College of Law at Cleveland State University. His research focuses on international law, commercial law, legal history, corporate law, and space law. We encourage you to learn about Professor Sundahl's work, and to take a
Dr. Aimin Zhou, professor in the Department of Chemistry, has an active research program designed to better understand inflammatory diseases, including cancer. The main research interest in Dr. Zhou’s laboratory is to study RNase L, a gene that encodes proteins important for working against virus and cancer.

Tissue distribution analysis has revealed that RNase L is highly expressed in the spleen, thymus, and all immune cells examined. However, the physiological role of RNase L remains to be fully understood. In recent years, studies have revealed that RNase L is involved in programmed cell death (apoptosis), immune responses and pathogenesis of prostate cancer. The data obtained in Dr. Zhou’s laboratory indicate that RNase L regulates the expression of proinflammatory genes in the cells under stimulation with pathological microbes. Currently, the research in his laboratory is focusing on elucidating the role of RNase L in lipid homeostasis and inflammatory diseases.

Please share with us important news or updates on your research, scholarly, or creative activities. Updates may be related to a paper that has been accepted for publication in a high-impact journal, a book you’ve just published, your work that will be exhibited at a prominent institution, or other updates you wish to share with our office. Send details to j.yard@csuohio.edu and c.mclennan@csuohio.edu.

The Project Description section of NSF proposals must contain, as a separate section within the narrative, a section labeled "Broader Impacts of the Proposed Work." This section should provide a discussion of the broader impacts of the proposed activities. Proposals submitted without this section (including the appropriate label "Broader Impacts of the Proposed Work") will be found to be non-compliant with the proposal preparation requirements of the current Grant Proposal Guide (GPG), as indicated in this section of the GPG.

The Office of Research is pleased to announce a workshop for tenure-track faculty serious about obtaining external research funding, particularly from federal agencies. The workshop will be conducted over a seven-week period during Summer 2015 (beginning the first week in June). The workshop will include one meeting (approximately two hours) each week, which will include a mix of invited presentations, group discussions, and constructive feedback for the participants. The idea is that by the end of the workshop, each participant should have a complete proposal ready for submission to a funding agency. For more information, including how to apply by the deadline of noon on Monday, April 20, 2015, please read the complete Call for Participation.
Seventy-four proposals were received from seven colleges with requests totaling $660,623 for the Faculty Scholarship Initiative (FSI), Faculty Research and Development (FRD), and Dissertation Research Award (DRA) internal funding programs. Proposals are currently under review and award decisions are expected by May 1, 2015. The Office of Research would like to thank Members of the University Research Council who have been working hard to provide thoughtful, quality reviews for all 2015-2016 FSI, FRD, and DRA proposals.

Reminder - Start Using Cayuse IRB

Researchers whose work includes human participants now have the option of submitting new protocols to the Institutional Review Board (IRB) using Cayuse IRB. Cayuse IRB is a completely online system, including online protocol creation, submission, review, and management. Cayuse IRB is easy to use and should improve all aspects of the submission and review process for researchers and IRB members.

Researchers will enter their 7-digit CSU ID number and password to access Cayuse IRB. Click here for a Researcher Introduction on Using Cayuse IRB at CSU. Although Cayuse IRB is currently optional, researchers are recommended to start using Cayuse IRB now - both because we expect that researchers will prefer doing so, and because we expect to eliminate the traditional offline application option by the end of the summer. Finally, researchers will have the option of importing previously approved protocols into Cayuse IRB in the near future.

News from the Technology Transfer Office

New Director of CSU’s Technology Transfer Office: Please join us in welcoming Jack Kraszewski to the role of Director of the Technology Transfer Office, effective April 20, 2015. Jack earned a B.S. in Metallurgical Engineering from the University of Cincinnati and a J.D. from the University of Dayton School of Law. He is a registered Patent Attorney and he brings over 15 years of intellectual property and technology transfer experience to the position. Jack has worked with early stage companies, technology transfer offices, principal investigators and commercialization entities.

Jack has worked for BioOhio and assisted with the management of the University Hospitals of Cleveland School of Medicine technology transfer operations. Jack is looking forward to working with CSU faculty, staff, and students, and to advancing the CSU Technology Transfer Office.
**Startup Vikes**: CSU is hosting Startup Vikes April 24-26, 2015 in Fenn Tower. CSU Startup Vikes is an event where developers, designers, marketers, product managers and startup enthusiasts come together to share ideas, form teams, build products, and launch startups. What makes this even more unique is that it happens over the course of three days. By the end of the event, startup teams will pitch for a chance to win prizes. [Click here](#) to register and for more information.

**NSF’s Innovation Corps (I-Corps)**: PIs, Co-PIs, Post Docs, funded students or staff, or any personnel named or funded by an NSF award that is current or that did not expire more than five years ago may be eligible to participate in I-Corps. I-Corps targets NSF researchers to receive additional support – in the form of entrepreneurial training, mentoring and funding -- to accelerate tech-transfer and explore commercialization of research outcomes. Click [here](#) to find out more about I-Corps, and consider participating in an introductory [webinar](#) held on the first Tuesday of every month at 2 p.m., Eastern Time, to answer questions about I-Corps. The webinars will provide updated information about I-Corps contacts, the curriculum, important dates and other aspects of I-Corps.