



## John A. Burns School of Medicine / College of Engineering

# Bioengineering Research Symposium

Thursday, February 16, 2012, 8:00 am to 11:45 am

651 Ilalo Street

Medical Education Building Room 315

Honolulu HI 96813

The field of bioengineering is rapidly growing nationally and globally due to engineering technology advances that facilitate breakthroughs in medicine and biology. Bioengineering is currently the fastest growing occupation in the US. At UH Manoa, there is a Bioengineering cluster of twenty engineering and JABSOM faculty active in the areas of biodevices and bioinspired design, bioimaging, biomechanics, cellular and molecular engineering, and systems biology. This symposium will give an overview of Bioengineering cluster research and education activities, and provide a networking opportunity for future collaborations.

### Schedule:

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| 8:00 – 9:00 am   | Morning Coffee (Kulia Grill)  |
| 9:00 – 9:15 am   | Introductory remarks by College of Engineering Dean Peter Crouch and JABSOM Dean Jerris Hedges  |
| 9:15 – 10:15 am  | Research talks:<br><b>Yi Zuo, Charles Neal</b> – Pulmonary administration of corticosteroids using lung surfactant at a delivering vehicle<br><b>Thomas Ernst, Andy Stenger, Todd Reed</b> – Adaptive motion correction for MRI and rapid brain functional MRI<br><b>Takashi Matsui, Aaron Ohta</b> – Reconstituting isolated cardiomyocytes using optically controlled microrobots |
| 10:15 – 10:45 am | Coffee break (Kulia Grill)  |
| 10:45 – 11:45 am | Research talks:<br><b>Victor Lubecke, Todd Seto, Olga Boric-Lubecke</b> – Non-contact cardiopulmonary monitoring<br><b>Scott Miller, Peter Berkelman, Russell Woo</b> – Surgical robotics and medical device design<br><b>Olga Boric-Lubecke, Aaron Ohta</b> – Bioengineering cluster research and education activities   |

Limited parking available in Lot C for \$5. Please carpool if possible. UH Manoa parking tags honored. Please RSVP to [ltaylor3@hawaii.edu](mailto:ltaylor3@hawaii.edu) by Tue, Feb 14.