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The patent titled "Methods and Systems for Spatially Modulated Ultrasound Radiation Force Imaging" (US 8753277) has recently been assigned to the UR with inventor Stephen A. McAleavey. The patent describes a new method for using ultrasound to determine the shear modulus of a tissue noninvasively. Changes in shear modulus of tissues can be associated with certain pathologies, such as cancer and liver fibrosis. Thus, Professor McAleavey’s new ultrasound technology holds great promise for increasing early detection and diagnosis of disease in patients. Stephen McAleavey is an Associate Professor of Biomedical Engineering, and member of the Rochester Center for Biomedical Ultrasound (RCBU).
Call for 2014 RCBU Annual Report Submissions!

We are now collecting material for the 2014 RCBU Annual Report. Please send summaries of your research conducted in 2014 as well as the following material:

- New Grants
- Promotions
- Awards
- Publications & Presentations with Abstracts
- Publication & Research Images
- New Patents
- Highlights of Student Achievements
- New Research Collaborations
- + Any Other Related Stories of Interest!

*Please send info to heather.deal@rochester.edu by Friday, Jan 23rd, 2015.*

If you would like to further discuss your material for inclusion in the Annual Report, or schedule a time to take new photos of your lab, please contact Heather Deal at heather.deal@rochester.edu or 276-6837.
Jonathan Macoskey Wins ASA Undergraduate Research Award

Jonathan Macoskey (BME Class 2015) was the recipient of the 2014 Robert W. Young Award for Undergraduate Student Research in Acoustics from the Acoustical Society of America. The Robert W. Young Award will provide resources for Jonathan to complete his proposed research project focused on developing a high-frequency ultrasound technique to visualize and quantify material properties of engineered tissue constructs. Jonathan is an undergraduate research assistant working in Professor Diane Dalecki's biomedical ultrasound laboratory, and his project contributes to a joint collaboration between Professor Dalecki and Professor Denise Hocking (Pharmacology and Physiology) dedicated to developing new ultrasound technologies for tissue engineering. Congratulations, Jonathan!

Karla Mercado Defends Ph.D. Thesis

Karla Mercado successfully defended her Ph.D. defense entitled “Developing High-Frequency Ultrasound Techniques to Characterize Three-Dimensional Engineered Tissues” on Thursday, December 11th, 2014. Karla is a Ph.D. candidate in the Department of Biomedical Engineering and is working in the laboratory of Professor Diane Dalecki. She will be starting a Post-Doctoral position in the laboratory of Professor Kevin Hayworth at the University of Cincinnati. Congratulations, Dr. Mercado!

Himanshu Shekhar Awarded ASA Hunt Fellowship

Himanshu Shekhar, who received his Ph.D. in May of 2014, has been awarded the very prestigious Frederick V. Hunt Postdoctoral Research Fellowship in Acoustics from the Acoustical Society of America for 2015-2016. Himanshu completed his doctoral work in Prof. Marvin Doyley's group, working on high frequency ultrasound imaging. The Hunt Fellowship was established by the Acoustical Society of America to honor the legacy of the late Prof. Frederick Vinton Hunt of Harvard University. Himanshu received one of two Hunt fellowships which were awarded this year for his proposal titled “Ultrasound-enhanced drug delivery for treating vascular disease.” He will complete this research in the Department of Internal Medicine at the University of Cincinnati, working with Prof. Christy Holland. Congratulations Dr. Shekhar!

Emma Grygotis Awarded Howard Hughes Medical Institute Fellowship

Emma Grygotis, a Pharmacology & Physiology Ph.D. candidate in Professor Hocking's lab, was awarded a 2014-2015 Howard Hughes Medical Institute (HHMI) Med-into-Grad grant. The prestigious HHMI sponsored fellowship augments traditional Ph.D. training with clinical rotations, a weekly CVRI seminar series, journal club, and translational cardiovascular coursework to train the next generation of bench-to-bedside cardiovascular scientists. Congratulations, Emma!
Recent Publications by RCBU Members


Upcoming Conferences

SPIE: Medical Imaging
February 21st - 26th 2015
Renaissance Orlando
Orlando, Florida, US
http://spie.org

American Institute of Ultrasound in Medicine
March 21st - 25th 2015
Walt Disney World Resort
Lake Buena Vista, Florida, US
http://www.aium.org

Acoustical Society of America
May 18th - 22nd 2015
Pittsburgh, Pennsylvania, US
http://acousticalsociety.org

*ASA Abstracts Due January 12th, 2015

IEEE International Ultrasonics Symposium
October 21st - 24th 2015
Taipei International Convention Center
Taipei, Taiwan
http://ewh.ieee.org/conf/ius/ius_2015/